

1-1-1901

Collection Book 1901

Cyrus Guernsey Pringle

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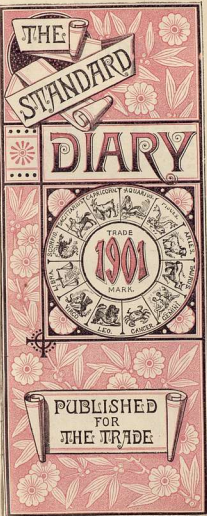
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C. G. Pringle,
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Botanical Collector
to
Harvard University.
Botanic Garden,
Cambridge,
Mass.
U. S. A.

Home address:
Charlotte,
Vermont,
U. S. A.





CALENDAR. 1901

	Sunday.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.		Sunday.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
Jan.	..	1	2	3	4	5	6	July.	..	1	2	3	4	5	6
	6	7	8	9	10	11	12		7	8	9	10	11	12	13
	13	14	15	16	17	18	19		14	15	16	17	18	19	20
	20	21	22	23	24	25	26		21	22	23	24	25	26	27
	27	28	29	30	31	..	..		28	29	30	31	..	..	..
Feb.	..	..	..	..	1	2	3	Aug.	..	..	..	..	1	2	3
	3	4	5	6	7	8	9		4	5	6	7	8	9	10
	10	11	12	13	14	15	16		11	12	13	14	15	16	17
	17	18	19	20	21	22	23		18	19	20	21	22	23	24
	24	25	26	27	28	..	..		25	26	27	28	29	30	31
March.	..	..	..	..	..	1	2		..	..	..	..	..	..	..
	3	4	5	6	7	8	9		1	2	3	4	5	6	7
	10	11	12	13	14	15	16		8	9	10	11	12	13	14
	17	18	19	20	21	22	23		15	16	17	18	19	20	21
	24	25	26	27	28	29	30		22	23	24	25	26	27	28
April.	31	..	..	..	..	..	..		29	30	..	..	..	..	..
	..	1	2	3	4	5	6		..	..	1	2	3	4	5
	7	8	9	10	11	12	13		6	7	8	9	10	11	12
	14	15	16	17	18	19	20		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		20	21	22	23	24	25	26
	28	29	30	..	..	..	..		27	28	29	30	31	..	..
May.	..	..	..	1	2	3	4		..	..	..	..	..	1	2
	5	6	7	8	9	10	11		3	4	5	6	7	8	9
	12	13	14	15	16	17	18		10	11	12	13	14	15	16
	19	20	21	22	23	24	25		17	18	19	20	21	22	23
	26	27	28	29	30	31	..		24	25	26	27	28	29	30
June.	..	..	..	..	..	..	1		..	..	..	..	..	..	..
	2	3	4	5	6	7	8		1	2	3	4	5	6	7
	9	10	11	12	13	14	15		8	9	10	11	12	13	14
	16	17	18	19	20	21	22		15	16	17	18	19	20	21
	23	24	25	26	27	28	29		22	23	24	25	26	27	28
	30	..	..	..	..	..	..		29	30	31	..	..	..	..

INTEREST TABLE.

FOUR PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	1	11
3 "	0	0	0	0	0	0	0	0	0	1	31	33
5 "	0	0	0	0	0	0	0	0	0	1	51	55
10 "	0	0	0	0	0	0	0	0	0	1	11	11
12 "	0	0	0	0	0	0	0	0	0	1	13	13
25 "	0	0	0	0	0	0	0	0	0	1	28	28
1 Mo.	0	0	0	0	0	0	0	0	0	1	31	33
3 "	0	0	0	0	0	0	0	0	0	1	51	55
5 "	0	0	0	0	0	0	0	0	0	1	11	11
10 "	0	0	0	0	0	0	0	0	0	1	13	13
12 "	0	0	0	0	0	0	0	0	0	1	28	28
1 Yr.	4	8	12	16	20	24	28	32	36	40	400	4000

FIVE PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	1	14
3 "	0	0	0	0	0	0	0	0	0	0	4	42
5 "	0	0	0	0	0	0	0	0	0	0	7	69
10 "	0	0	0	0	0	0	0	0	0	0	14	139
12 "	0	0	0	0	0	0	0	0	0	0	27	267
25 "	0	0	0	0	0	0	0	0	0	0	35	347
1 Mo.	0	0	0	0	0	0	0	0	0	0	4	42
3 "	0	0	0	0	0	0	0	0	0	0	8	83
5 "	0	0	0	0	0	0	0	0	0	0	13	125
10 "	0	0	0	0	0	0	0	0	0	0	27	267
12 "	0	0	0	0	0	0	0	0	0	0	35	347
1 Yr.	5	10	15	20	25	30	35	40	45	50	500	5000

SIX PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	2	17
3 "	0	0	0	0	0	0	0	0	0	0	5	50
5 "	0	0	0	0	0	0	0	0	0	0	8	83
10 "	0	0	0	0	0	0	0	0	0	0	17	167
12 "	0	0	0	0	0	0	0	0	0	0	20	200
25 "	0	0	0	0	0	0	0	0	0	0	42	417
1 Mo.	0	0	0	0	0	0	0	0	0	0	5	50
3 "	0	0	0	0	0	0	0	0	0	0	10	100
5 "	0	0	0	0	0	0	0	0	0	0	15	150
10 "	0	0	0	0	0	0	0	0	0	0	20	200
12 "	0	0	0	0	0	0	0	0	0	0	25	250
1 Yr.	6	12	18	24	30	36	42	48	54	60	600	6000

RATE OF INCOME ON STOCKS.

Purchased at the following prices, (par value being \$100), and bearing interest at the following rates.

Paid.	3%	4%	5%	6%	7%	8%	9%
\$50	6 00	8 00	10 00	12 00	14 00	16 00	18 00
55	5 45	7 27	9 09	10 90	12 72	14 55	16 36
60	5 00	6 67	8 33	10 00	11 66	13 33	15 00
65	4 62	6 15	7 69	9 23	10 76	12 30	13 85
70	4 28	5 71	7 14	8 57	10 00	11 42	12 85
75	4 00	5 33	6 66	8 00	9 33	10 66	12 00
80	3 75	5 00	6 25	7 50	8 75	10 00	11 25
85	3 53	4 70	5 88	7 05	8 23	9 41	10 58
90	3 33	4 44	5 55	6 66	7 77	8 88	10 00
95	3 15	4 20	5 25	6 30	7 35	8 40	9 45
100	3 00	4 00	5 00	6 00	7 00	8 00	9 00
105	2 85	3 85	4 85	5 85	6 85	7 85	8 85
110	2 70	3 70	4 70	5 70	6 70	7 70	8 70
115	2 55	3 55	4 55	5 55	6 55	7 55	8 55
120	2 40	3 40	4 40	5 40	6 40	7 40	8 40
125	2 25	3 25	4 25	5 25	6 25	7 25	8 25
130	2 10	3 10	4 10	5 10	6 10	7 10	8 10
135	1 95	2 95	3 95	4 95	5 95	6 95	7 95
140	1 80	2 80	3 80	4 80	5 80	6 80	7 80
145	1 65	2 65	3 65	4 65	5 65	6 65	7 65
150	1 50	2 50	3 50	4 50	5 50	6 50	7 50
155	1 35	2 35	3 35	4 35	5 35	6 35	7 35
160	1 20	2 20	3 20	4 20	5 20	6 20	7 20
165	1 05	2 05	3 05	4 05	5 05	6 05	7 05
170	90	1 90	2 90	3 90	4 90	5 90	6 90
175	75	1 75	2 75	3 75	4 75	5 75	6 75
180	60	1 60	2 60	3 60	4 60	5 60	6 60
185	45	1 45	2 45	3 45	4 45	5 45	6 45
190	30	1 30	2 30	3 30	4 30	5 30	6 30
195	15	1 15	2 15	3 15	4 15	5 15	6 15
200	0	1 00	2 00	3 00	4 00	5 00	6 00

TO FIND LENGTH OF DAY OR NIGHT.

At any time of the year add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising for the length of the day. Subtract the time of setting from 12 hours, and to the remainder add the time of rising next morning for the length of the night. These rules are equally true for apparent time.

RATES OF POSTAGE

POSTAL CARDS. 1 cent each, go without further charge to all parts of the United States, Canada and Mexico. "Reply Postal Cards," with card attached for paid reply, 2 cents each. Cards for foreign countries (within the Postal Union) 2 cents each.

LETTERS. to all parts of the United States, Canada and Mexico, 2 cents for each ounce or fraction thereof. LOCAL OR "DROP" LETTERS, that is, for the city or town where deposited, 2 cents where the carrier system is adopted, and 1 cent where there is no carrier system.

FIRST CLASS.—Letters and all other written matter, whether sealed or unsealed, and all other matter sealed, nailed, sewed, tied, or fastened in any manner so that it cannot be easily examined, 2 cents for each ounce or fraction thereof.

SECOND CLASS.—Only for publishers and newsagents, 1 cent per pound.

NEWSPAPERS AND PERSONALS (regular publications) can be mailed by the public at the rate of 1 cent for each 4 ounces or fraction thereof.

THIRD CLASS.—Printed matter, in unsealed wrappers only (all matter inclosed in wadded envelopes must pay letter rates), 1 cent for each 2 ounces or fraction thereof, which must be fully prepaid. This includes books, circulars, chromos, engravings, handbills, lithographs, music, pamphlets, proof-sheets and manuscript accompanying the same, reproductions by the electric pen, hektograph, metallograph, papyrograph, and, in short, any reproduction upon paper by any process except handwriting and the copying-press. Limit of weight 4 lbs., except for a single book, which may weigh more.

FOURTH CLASS.—All mailable matter not included in the above, which is so prepared for mailing as to be easily withdrawn from the wrapper and examined, 1 cent per ounce or fraction thereof. Limit of weight 4 lbs. Full prepayment compulsory.

REFORWARDING.—Letters will be forwarded from one post office to another upon the written request of the person addressed, without additional charge; but unclaimed packages cannot be returned to the sender until stamps are furnished to pay the return postage.

PERMISSIBLE WRITING.—No writing is permitted on third or fourth class matter except as follows: The name and address of sender on the outside or inside of package, preceded by the word "from." On the wrapper may also be written the names and number of articles inclosed. The sender is further allowed to mark a word or passage in a book or paper to which he desires to call special attention. He may also write a simple inscription or dedication upon the cover or blank leaves of a book or pamphlet. There may be attached to articles of merchandise, by tag or label, a mark, number, name, or letter for purpose of identification. Printed circulars may contain the

RATES OF POSTAGE

written name of the sender, or of the addressee, and the date. Any other writing on third or fourth class matter will subject the package to letter rates of postage, and render the sender liable to a fine of ten dollars for each offence. Printed matter may be enclosed with fourth class matter, but the whole package is subject to the rate of 1 cent per ounce or fraction thereof.

REGISTRATION.—Letters or packages can be registered by adding stamps to the amount of 8 cents to the regular rate.

SPECIAL DELIVERY STAMPS, at 10 cents each, used in addition to regular rate, insures delivery immediately on arrival at office of destination. These stamps can be used for no other purpose.

MONEY ORDERS.

For Orders not exceeding \$2.50, three cents; over \$2.50 and not exceeding \$5, five cents; over \$5 and not exceeding \$10, eight cents; over \$10 and not exceeding \$20, ten cents; over \$20 and not exceeding \$30, twelve cents; over \$30 and not exceeding \$40, fifteen cents; over \$40 and not exceeding \$50, eighteen cents; over \$50 and not exceeding \$60, twenty cents; over \$60 and not exceeding \$75, twenty-five cents; over \$75 and not exceeding \$100, thirty cents.

FOREIGN POSTAGE.

The rates for **LETTERS** are for the half ounce or fraction thereof, and those for **NEWSPAPERS** for 2 ounces or fraction thereof.

To Great Britain and Ireland, France, Spain, all parts of Germany, including Austria, Denmark, Switzerland, Italy, Russia, Norway, Sweden, Turkey (European and Asiatic), Egypt, letters 5 cents, newspapers 1 cent for each 2 ounces or fraction thereof.

To Australia, letters via San Francisco, 5 cents; via Brindisi, 5 cents; newspapers, via San Francisco, 1 cent for 2 ounces; via Brindisi, 1 cent for 2 ounces. China, letters, via San Francisco, 5 cents; via Brindisi, 10 cents; newspapers, 2 cents for each 2 ounces. British India, Italian mail, letters 5 cents; newspapers, 1 cent for 2 ounces. Japan, letters, via San Francisco, 5 cents; newspapers, 1 cent for 2 ounces.

HELP! In case of Accidents.

Drowning. 1. Loosen clothing, if any. 2. Empty lungs of water by laying body on its stomach and lifting it by the middle so that the head hangs down. Jerk the body a few times. 3. Pull tongue forward, using handkerchief, or pin with string, if necessary. 4. Initiate motion of respiration by alternately compressing and expanding the lower ribs, about twenty times a minute. Alternately raising and lowering the arms from the sides up above the head will stimulate the action of the lungs. Let it be done gently but persistently. 5. Apply warmth and friction to extremities. 6. By holding tongue forward, closing the nostrils and pressing the "Adam's apple" back, (so as to close entrance to stomach) direct inflation may be tried. Take a deep breath and breathe it forcibly into the mouth of patient, compress the chest to expel the air, and repeat the operation. 7. **DON'T GIVE UP!** People have been saved after hours of patient, vigorous effort. 8. When breathing begins, get patient into a warm bed, give warm drinks, or spirits in teaspoonfuls, fresh air and quiet.

Burns and Scalds. Cover with cooking soda and lay wet cloths over it. Whites of eggs and olive oil. Olive or linseed oil, plain or mixed with chalk or whiting.

Lightning. Dash cold water over a person struck.

Sunstroke. Loosen clothing. Get patient into shade and apply ice-cold water to head.

Mad Dog or Snake Bite. Tie cord tight above wound. Suck the wound and cauterize with caustic or white-hot iron at once, or cut out adjoining parts with a sharp knife.

Venomous Insects' Stings, &c. Apply weak ammonia, oil, salt water or iodine.

Fainting. Place flat on back; allow fresh air and sprinkle with water.

Teeth of Death. Hold mirror to mouth. If living, moisture will gather. Push ring into flesh. If dead the hole will remain, if alive it will close up.

Cinders in the Eye. Roll soft paper up like a lamp lighter and wet the tip to remove, or use a medicine dropper to draw it out. Rub the other eye.

Fire in One's Clothing. *Don't run*—especially not down stairs or out of doors. Roll on carpet or wrap in woolen rug or blanket. Keep the head down, so as not to inhale flame.

Fire in a Building. Crawl on the floor. The clearest air is the lowest in the room. Cover head with a woolen wrap, wet if possible. Cut holes for the eyes. Don't get excited.

Fire in Kerosene. *Don't use water*, it will spread the flames. Dirt, sand or sour is the best extinguisher; or smother with woolen rug, table-cloth or carpet.

Suffocation from Inhaling Burning-Gas. Get into the fresh air as soon as possible and lie down. Keep warm. Take ammonia—twenty drops to a tumbler of water, at frequent intervals.

ANTIDOTES FOR POISONS.

First. Send for a Physician.

Second. INDUCE VOMITING, by tickling throat with feather or finger, drinking hot water or strong Mustard and water. Swallow Sweet Oil or whites of Eggs.

Acids are antidotes for ALKALIES, and *vice versa*.

SPECIAL POISONS AND ANTIDOTES.

Acids. MURIATIC. OXALIC. } Seapowds, Magnesia,
ACETIC. SULPHURIC (Oil of Vit- } Lime-water.
riol). NITRIC (Aqua Fortis).

Prussic Acid. } Ammonia in water. Dash water
in face.

Carbolic Acid. } Flour and water, mucilaginous drinks.
ALKALIES. POTASH. LYE. } Vinegar or Lemon juice
HAETSHORN. AMMONIA. } in water.

Arsenic. } Milk, Raw Eggs, Sweet Oil, Lime-
Rat Poison. } water, Flour and water.
Paris Green.

Bug Poison. }
Lead. } Whites of Eggs or Milk
Saltpetre. } in large doses.
Corrosive Sublimate.
Sugar of Lead.
Blue Vitriol.

Chloroform. } Dash cold water on head and chest.
Chloral. } Artificial Respiration. Piece of ice
Ether. } in rectum.

Carbonate of Soda. } Seapowds and mucilaginous
Copperas. } drinks.
Cobalt.

Iodine. } Starch and water. Astringent infu-
Antimony. } sion. Strong tea.

Tartar Emetic. }
Mercury and ITS SALTS. } Whites of Eggs. Milk.
Mucilages.

Nitrate of Silver. } Salt and water.
Lunar Caustic.

Opium. }
Morphine. } Strong coffee, hot bath. Keep
Laudanum. } awake and moving at any
Paregoric. } cost.

Soothing Powders
or Syrups.

Strychnine. } Mustard and water, Sul-
Tinct. of Nux Vomica. } phate of Zinc. Absolute
quiet. Plug the ears.

AVOID DANGER OF POISONING.

By always keeping every bottle or box well labelled. If an old bottle is used do not fail to wash off all old labels. Have a place for poisonous medicines, etc., and keep them on the high shelves. Promptly destroy all packages which have contained them.

WEATHER SIGNALS.

[Adopted for general use by the United States Signal Service on and after March 1, 1887.]

INTERPRETATION OF SIGNALS.

No. 1. White Flag.	No. 2. Blue Flag.	No. 3. Black Triangular Flag.	No. 4. White Flag, Black Center.
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Clear or Fair.



Rain or Snow.



Temperature.

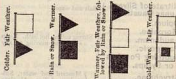


Cold Wave.

No. 1, white flag, clear or fair weather, no rain. No. 2, blue flag, rain or snow. No. 3, black triangular flag, refers to temperature, and above Nos. 1 or 2, indicates warmer weather; below Nos. 1 or 2, colder weather, and when not displayed, stationary weather. No. 4, white flag with black center (cold wave flag), sudden fall in temperature; this signal is usually ordered at least twenty-four hours in advance of the cold wave. It is not displayed unless a temperature of forty-five degrees, or less, is expected, nor is flag No. 3 ever displayed with it.

A red flag with a black center indicates that a storm of marked violence is expected.

DISPLAY EXAMPLES.



When No. 3 is placed above Nos. 1 or 2 it indicates warmer; when below, colder; when not displayed, the temperature is expected to remain about stationary.

When displayed on poles, the signals should be arranged to read downward; when displayed from horizontal supports, a small streamer should be attached to indicate the point from which the signals are to be read.

VALUES OF FOREIGN COINS.

The following estimate, by the Director of the Mint, of the values of Foreign Coins, is proclaimed by the Secretary of the Treasury, in pursuance of the provisions of section 25 of the Act of August 28, 1894, to be the values of such coins in terms of the money of account of the United States, to be followed in estimating the value of all foreign merchandise exported to the United States on or after Jan. 1, 1900, expressed in any of such metallic currencies:

COUNTRY.	STANDARD.	MONEY UNIT.	VALUE.
Argentina Rep.	Gold & silv.	Peso	0 06 5
Austria-Hungary	Gold	Crown	0 20 3
Belgium	Gold & silv.	Franc	0 19 3
Bolivia	Silver	Boliviano	0 43 7
Brazil	Gold	Milreis	0 34 6
British America	Gold	Dollar	1 00 0
Costa Rica	Gold	Colon	0 46 5
Chile	Gold	Peso	0 16 5
China	Silver	Tael. { Shanghai. Hankow. (Customs).	0 03 4 0 20 3
Colombia	Silver	Peso	0 42 7
Cuba	Gold & silv.	Peso	0 32 6
Denmark	Gold	Crown	0 26 8
Ecuador	Silver	Sucre	0 42 7
Egypt	Gold	Pound (100 piastres)	0 94 3
Finland	Gold	Mark	0 19 3
France	Gold & silv.	Franc	0 19 3
German Empire	Gold	Mark	0 23 8
Great Britain	Gold	Pound sterling	0 86 6
Greece	Gold & silv.	Drachma	0 19 3
Haiti	Gold & silv.	Gourde	0 06 5
India	Silver	Rupie	0 26 3
Italy	Gold & silv.	Lira	0 19 3
Japan	Gold	Yen	0 49 8
Liberia	Gold	Dollar	1 00 0
Mexico	Silver	Dollar	0 46 4
Netherlands	Gold & silv.	Guilder	0 40 2
Newfoundland	Gold	Dollar	1 14 4
Norway	Gold	Crown	0 26 8
Persia	Silver	Kran	0 7 9
Peru	Silver	Sol	0 49 7
Portugal	Gold	Milreis	1 8 0
Russia	Gold	Ruble	0 31 5
Spain	Gold & silv.	Peseta	0 19 3
Sweden	Gold	Crown	0 26 8
Switzerland	Gold & silv.	Franc	0 19 3
Turkey	Gold	Piaster	0 4 4
Uruguay	Gold	Peso	1 3 4
Venezuela	Gold & silv.	Bolivar	0 19 3

STANDARD BULLION.

Standard bullion contains 900 parts of pure gold or pure silver and 100 parts of copper alloy. The coined value of an oz. of pure gold is \$20.67, and of an oz. of standard gold is \$19.00. The coined value in standard silver dollars of an oz. of pure silver is \$1.29, and of an oz. of standard silver is \$1.00.

INTEREST LAWS OF ALL THE STATES, AND DAYS OF GRACE.

STATES AND TERRITORIES.	DAYS OF GRACE.		RATES OF INTEREST.	PENALTY OF USURY.
	Jan.	Feb.		
Alabama.....	Yes	Yes	8 per ct.	Forfe. of all int.....
Arizona.....	Yes	Yes	7 No limit.	None.....
Arkansas.....	Yes	Yes	6 10 per ct.	Forfe. principal & int.
California.....	No	No	7 No limit.	None.....
Colorado.....	Yes	No	8 No limit.	None.....
Connecticut.....	No	No	6 No limit.	None.....
Delaware.....	Yes	No	6 per ct.	Forfe. of principal.....
District of Col.	No	No	6 10 per ct.	Forfe. of entire int.....
Florida.....	Yes	No	8 10 per ct.	None.....
Georgia.....	Yes	No	7 8 per ct.	Forfe. of excess of int.
Idaho.....	No	No	8 12 per ct.	Forfe. of principal & int.
Illinois.....	No	No	5 7 per ct.	Forfe. of entire int.....
Indiana.....	Yes	Yes	8 per ct.	Forfe. int. over 6 p. ct.
Iowa.....	Yes	No	6 per ct.	Forfe. int. costs, etc.
Kansas.....	Yes	No	6 10 per ct.	Forfe. of excess of int.
Kentucky.....	Yes	Yes	6 per ct.	Forfe. excess of int.....
Louisiana.....	Yes	No	8 per ct.	Forfe. of interest.....
Maine.....	Yes	Yes	6 No limit.	None.....
Maryland.....	Yes	Yes	6 per ct.	Forfe. excess of int.
Massachusetts.....	No	Yes	6 No limit.	None (5 c. on 1/2 mth)
Michigan.....	Yes	Yes	8 7 per ct.	Forfe. of interest.....
Minnesota.....	Yes	Yes	6 10 per ct.	Forfe. of principal.....
Mississippi.....	Yes	Yes	6 10 per ct.	Forfe. of interest.....
Missouri.....	Yes	No	6 per ct.	Exec. applie's on prin
Montana.....	No	No	6 No limit.	None.....
Nebraska.....	Yes	Yes	7 10 per ct.	Forfe. of int. - costs.
Nevada.....	Yes	No	7 No limit.	None.....
New Hampshire.....	No	No	6 per ct.	Forfe. treble exc. of int
New Jersey.....	Yes	Yes	6 per ct.	Forfe. int. & costs.....
New Mexico.....	No	No	6 12 per ct.	Forfe. dbl. amt. of int
New York.....	No	No	6 per ct.	Forfe. costs & fine imp't
North Carolina.....	Yes	Yes	6 per ct.	Forfe. dbl. amt. of int.
North Dakota.....	Yes	No	6 7 1/2 per ct.	Forfe. int. & costs.....
Ohio.....	No	No	6 3 per ct.	Forfe. of excess.....
Oklahoma.....	Yes	No	7 12 per ct.	Forfe. prin. & int. costs
Oregon.....	No	No	6 10 per ct.	Forfe. of excess of int.
Pennsylvania.....	No	No	6 4 per ct.	Forfe. excess of int.
Rhode Island.....	Yes	Yes	6 No limit.	None.....
South Carolina.....	Yes	Yes	7 3 per ct.	Forfe. of interest.....
South Dakota.....	Yes	No	7 12 per ct.	Forfe. int. fine imp't
Tennessee.....	Yes	No	6 No limit.	Forfe. excess of int.
Texas.....	Yes	Yes	6 10 per ct.	Forfe. entire interest.
Utah.....	No	No	6 No limit.	None.....
Vermont.....	No	No	6 6 per ct.	Forfe. of excess.....
Virginia.....	Yes	No	6 per ct.	Forfe. exc's over 6 p. c.
Washington.....	Yes	Yes	6 12 per ct.	Dbl. and int. & costs
West Virginia.....	Yes	No	6 6 per ct.	Forfe. of interest.....
Wisconsin.....	No	No	6 10 per ct.	Forfe. entire interest.
Wyoming.....	Yes	Yes	8 12 per ct.	None.....

A note dated Sunday is void.

Altering a note in any manner by the holder makes it void.

A note given by a minor is void.

The maker of a lost or stolen note is not released from payment if the amount and consideration can be proven.

A note obtained by fraud, or given by an intoxicated person, cannot be collected.

PRESIDENTS OF THE UNITED STATES.

NAME.	BORN.	INaugurated.	Term of Office.	Died.	State of Birth.	Political Party.
GEORGE WASHINGTON.....	Feb. 22, 1732	April 30, 1789	8 years.....	Dec. 14, 1799	Virginia.	Federal.
JOHN ADAMS.....	Oct. 31, 1735	Mar. 4, 1797	4 ".....	July 4, 1826	Mass.	Republican.
THOMAS JEFFERSON.....	April 13, 1743	" 4, 1801	".....	July 4, 1826	Virginia.	"
JAMES MADISON.....	Mar. 16, 1751	" 4, 1809	".....	July 27, 1836	Mass.	Coalition.
JAMES MONROE.....	Sept. 18, 1758	" 4, 1817	".....	July 27, 1831	New York.	Democrat.
ANDREW JACKSON.....	Mar. 15, 1767	" 4, 1829	".....	June 22, 1845	Ohio.	Whig.
MARTIN VAN BUREN.....	Dec. 5, 1768	" 4, 1837	".....	June 22, 1845	Mass.	Democrat.
WM. H. HARRISON.....	Feb. 23, 1773	" 4, 1841	1 month.....	June 22, 1845	Ohio.	"
JOHN TYLER.....	Mar. 29, 1790	April 6, 1841	4 years.....	July 18, 1862	Tennessee.	Democrat.
JAMES K. POLK.....	Nov. 2, 1795	" 4, 1845	4 years.....	June 15, 1849	Mass.	Democrat.
MILLARD FILLMORE.....	Feb. 7, 1800	" 4, 1850	1 year 8 mos.	July 8, 1850	Mass.	Democrat.
JAMES BUCHANAN.....	April 23, 1791	" 4, 1853	2 years 8 mos.	Mar. 6, 1868	Virginia.	Democrat.
ABRAHAM LINCOLN.....	Feb. 12, 1809	" 4, 1861	4 years.....	Mar. 9, 1865	New York.	Whig.
ANDREW JOHNSON.....	Dec. 29, 1808	" 4, 1865	3 yrs. 6 mos.	July 31, 1865	North Carolina.	Democrat.
ULYSSES S. GRANT.....	Dec. 27, 1822	April 15, 1869	3 years.....	July 25, 1885	Ohio.	Republican.
RUTHEN'G B. HAYS.....	Oct. 4, 1827	" 5, 1877	4 months.....	Jan. 17, 1883	Illinois.	"
JAMES A. GARFIELD.....	Nov. 19, 1831	" 5, 1881	4 months.....	Nov. 19, 1881	Ohio.	"
CHESTER A. ARTHUR.....	Oct. 5, 1829	Sept. 20, 1881	1 year 10 mos.	Nov. 18, 1886	Vermont.	Democrat.
GRANT.....	Oct. 26, 1822	" 3, 1885	4 years.....	Sept. 21, 1885	Indiana.	Republican.
ROBERT B. HAYES.....	Oct. 4, 1827	Mar. 4, 1877	4 years.....	Nov. 18, 1886	Ohio.	"
WILLIAM MCKINLEY.....	Jan. 29, 1843	" 4, 1897	".....	".....	New Jersey.	"

LEGAL HOLIDAYS.

In most of the States when the holiday falls on Sunday the Monday following is the holiday.

ALABAMA—Jan. 1, Feb. 22, Mardi-Gras, Good Friday, April 26, July 4, 1st Monday in Sept., Dec. 25.
ARIZONA—Jan. 1, Feb. 22, May 30, July 4, Dec. 25, any day of Thanksgiving or gen. election, Arbor Day.
CALIFORNIA—Jan. 1, Feb. 22, May 30, July 4, Sept. 9, 1st Mon. in Oct., Thanksgiving, Dec. 25, general election.
COLORADO—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, Arbor Day, general election.
CONNECTICUT—Jan. 1, Feb. 12, Feb. 22, Fast day, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25.
DELAWARE—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25.
DISTRICT OF COLUMBIA—Jan. 1, Feb. 22, Mar. 4, May 30, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25.
FLORIDA—Jan. 1 and 19, Arbor Day, Feb. 22, April 26, June 3, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25, general election.
GEORGIA—Jan. 1 and 19, Feb. 22, April 26, June 3, July 4, 1st Monday in Sept., any Thanksgiving, 1st Friday in Dec., Dec. 25.
IDAHO—Same as Arizona. Also Friday after May 1. Omitting May 30.
ILLINOIS—Jan. 1, Feb. 12 and 22, May 30, July 4, 1st Monday in Sept., Election Day, Thanksgiving, Dec. 25.
INDIANA—Jan. 1, Feb. 22, public fast, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
IOWA—Jan. 1, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
KANSAS—Jan. 1, May 30, public fast, July 4, 1st Monday in Sept., Arbor Day, Thanksgiving, Dec. 25, general election.
KENTUCKY—Jan. 1, Feb. 22, May 30, July 4, public fast, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
LOUISIANA—Jan. 1 and 8, Feb. 22, Mardi-Gras in New Orleans, Good Friday, April 6, July 4, Dec. 25, All Saints Day, general election.
MAINE—Jan. 1, Feb. 22, May 30, public fast, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25.
MARYLAND—Jan. 1, Feb. 22, Good Friday, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election, every Saturday *r. s.*
MASSACHUSETTS—Feb. 22, April 15, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25.
MICHIGAN—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in Sept., Dec. 25, Fasting and Thanksgiving day.
MINNESOTA—Jan. 1, Feb. 12 and 22, Good Friday, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, Arbor Day, general election.
MISSISSIPPI—July 4, Dec. 25.
MISSOURI—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in September, Dec. 25, Thanksgiving, general election.

LEGAL HOLIDAYS.

MONTANA—Jan. 1, Feb. 22, 3d Tuesday in April, May 30, public fast, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, Arbor Day, general election.
NEBRASKA—Jan. 1, Feb. 22, April 22, May 30, July 4, 1st Mon. in Sept., public fast, Thanksgiving, Dec. 25.
NEVADA—Jan. 1, Feb. 22, May 30, July 4, Oct. 31, Thanksgiving, Dec. 25, general election.
NEW HAMPSHIRE—Feb. 22, Fast day, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
NEW JERSEY—Jan. 1, Feb. 12 and 22, May 30, July 4, 1st Monday in Sept., Thanksgiving and Fast day, Dec. 25, every Saturday *r. s.*, general election. Notes and drafts payable on secular or business day next succeeding each holiday.
NEW MEXICO—Jan. 1, July 4, Dec. 25, and all days for Fasting and Thanksgiving. Notes due on business days are payable on the next business day thereafter.
NEW YORK—Jan. 1, Feb. 12 and 22, May 30, July 4, 1st Monday in Sept., Dec. 25, general election, every Saturday *r. s.*, Thanksgiving, Fast day.
NORTH CAROLINA—Jan. 1 and 19, Feb. 22, May 10 and 20, July 4, Labor Day, Thanksgiving, Dec. 25, general election. Notes and drafts payable on secular or business day next succeeding each holiday.
NORTH DAKOTA—Jan. 1, Feb. 12, Feb. 22, May 30, July 4, Arbor Day, Thanksgiving, public fast, Dec. 25, general election.
OHIO—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
OREGON—Jan. 1, Feb. 22, May 30, 1st Sat. in June, July 4, 1st Monday in Sept., public fast, Thanksgiving, Dec. 25.
PENNSYLVANIA—Jan. 1, Feb. 12, Feb. 22, Good Friday, May 30, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25, general election, every Saturday *r. s.*
RHODE ISLAND—Jan. 1, Feb. 22, Arbor Day, May 30, July 4, 1st Monday in September, Thanksgiving, December 25, State election, general election.
SOUTH CAROLINA—Jan. 1, Jan. 19, Feb. 22, May 30, July 4, 1st Monday in Sept., National Thanksgiving, Dec. 25, general election.
SOUTH DAKOTA—Same as North Dakota.
TENNESSEE—Jan. 1, Good Friday, 2d Friday in May, May 30, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25, general election.
TEXAS—Jan. 1, Feb. 22, March 2, April 21, July 4, 1st Monday in Sept., Dec. 25, days of Fasting and Thanksgiving, election day.
UTAH—Jan. 1, Feb. 22, April 15, May 30, July 4, July 24, 1st Monday in Sept., Thanksgiving, Fast days, Dec. 25.
VERMONT—Jan. 1, Feb. 22, May 30, July 4, Aug. 16, Thanksgiving, Dec. 25.
VIRGINIA—Jan. 1 and 19, Feb. 22, Fast day, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, June 3.
WASHINGTON—Jan. 1, Feb. 12 and 22, Decoration day, July 4, 1st Monday in September, Thanksgiving, December 25, general election.
WEST VIRGINIA—Jan. 1, Feb. 22, July 4, Dec. 25, any day of National Thanksgiving, general election.
WISCONSIN—Jan. 1, Feb. 22, May 30, Arbor Day, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
WYOMING—Jan. 1, Feb. 22, May 30, July 4, Arbor Day, Thanksgiving, Dec. 25, general election.

STANDARD TIME.

In this Almanac the rising and settings of the Sun and Moon are given in local mean time, as heretofore. The Tides are given in STANDARD TIME.

To change to STANDARD TIME add or subtract the minutes as given below, according as they are marked *plus* or *minus*.

Standard Time Divisions as adopted by the Railroads.

EASTERN STANDARD—79th Meridian. Canada, between Quebec and Detroit.—U. S. east of Buffalo, N. Y.; Pittsburg, Pa.; Wheeling and Huntington, W. Va.; Bristol, Tenn.; Charlotte, N. C., and Augusta, Ga.

CENTRAL STANDARD—90th Meridian. West from "Eastern" limits, as above, to Broadview, Canada; to the Missouri River in Dakota; North Platte and McCook, Nebraska; Wallace and Dodge City, Kansas; Toyah and Sanderson, Texas.

MOUNTAIN STANDARD—109th Meridian. West from "Central" limits to Heron, Montana; Ogden, Utah; Needles and Yuma, Arizona.

PACIFIC STANDARD—120th Meridian. West from "Mountain" limits to coast.

Correction for the following Cities.

Eastern Standard. 75° Longitude.	Central Standard. 90° Longitude.
Minutes.	Minutes.
Bangor, Me. - 25	Cleveland, Ohio - 33
Augusta, Me. - 21	Columbus, Ohio - 28
Portland, Me. - 19	Detroit, Mich. - 28
Boston, Mass. - 16	Toledo, Ohio - 26
Newport, R. I. - 15	Dayton, Ohio - 23
Providence, R. I. - 14	Cincinnati, Ohio - 22
Concord, N. H. - 14	Louisville, Ky. - 22
New London, Conn. - 11	Indianapolis, Ind. - 18
Springfield, Mass. - 10	Chicago, Ill. - 10
Montpelier, Vt. - 10	Milwaukee, Wis. - 8
Hartford, Conn. - 9	Springfield, Ill. - 2
Montreal, Que. - 6	Memphis, Tenn. 0
Albany, N. Y. - 5	New Orleans, La. 0
New York, N. Y. 4	St. Louis, Mo. + 1
Utica, N. Y. + 1	Rock Island, Ill. + 3
Philadelphia, Pa. + 1	Dubuque, Iowa + 3
Syracuse, N. Y. + 6	Burlington, Iowa + 5
Baltimore, Md. + 5	Des Moines, Iowa + 12
Washington, D. C. + 8	Kansas City, Mo. + 18
Rochester, N. Y. + 11	Galveston, Texas + 19
Buffalo, N. Y. + 16	Omaha, Neb. + 24
Pittsburg, Pa. + 20	

Mountain Standard. 105° Longitude.	Pacific Standard. 120° Longitude.
Denver, Col. 0	Sacramento, Cal. + 6
Salt Lake City, Utah, + 28	San Francisco, Cal. + 10

TIDE TABLE.

(The following values are derived from late determinations of the UNITED STATES COAST SURVEY.)

To find the time (Standard Time) of High Water at any of the following places, add or subtract the hours and minutes opposite the name of place in the following Table, to or from the hours and minutes of High Water at NEW YORK for the required day, as found in the Calendar Page.

EASTERN STANDARD.		H.	M.	Mean range.
				Feet.
Eastport, Me.	add	2	33	18.2
Bar Harbor, Me.	"	2	24	16.4
Rockland, Me.	"	2	47	9.6
Thomaston, Me.	"	2	55	9.4
Portland, Me.	"	2	55	9.1
Bath, Me.	"	3	49	6.1
Portsmouth, N. H.	"	3	3	8.6
Idle of Shoals, N. H.	"	2	57	8.7
Newburyport, Mass.	"	3	3	7.5
Chicester, Mass.	"	2	42	8.9
Salem, Mass.	"	2	57	9.2
Nahant, Mass.	"	2	50	9.4
Plymouth, Mass.	"	2	59	10.2
Provincetown, Mass.	"	3	7	9.2
Edgartown, Mass.	"	3	54	2.0
Nantucket, Mass.	"	4	6	3.0
Vineyard Haven, Mass.	"	3	22	1.0
Wood's Hole, North Side, Mass.	sub.	0	21	4.0
Wood's Hole, South Side, Mass.	add	0	14	1.6
New Bedford Entrance (Dumpling Rock), Mass.	sub.	0	20	3.7
Newport, R. I.	"	0	33	3.6
Bristol, R. I.	"	0	25	4.7
Point Judith, R. I.	"	0	45	3.1
Sandy Hook, N. J.	"	0	34	4.7
W. Point Hill, R. I.	add	0	33	2.7
Stonington, Conn.	"	0	35	2.7
New London, Conn.	"	1	14	2.0
New Haven, Conn.	"	2	57	6.6
Bridgeport, Conn.	"	2	59	6.3
Montauk Point, L. I.	"	3	4	1.9
Throgs Neck, N. Y.	"	3	13	7.1
Cape May Landing, N. J.	"	3	14	4.8
Newcastle, Del.	"	3	52	6.5
Philadelphia, Penn.	"	3	40	6.0
Annapolis, Md.	sub.	3	18	0.9
Baltimore, Md.	"	3	21	1.2
Richmond, Va.	"	3	24	3.6
Hatteras Inlet, N. C.	"	0	56	2.0
Beaufort, N. C.	"	0	35	2.8
Charleston (C. H. Wharf), S. C.	"	0	19	5.1
CENTRAL STANDARD.				
Fort Pulaski (Savannah East), Ga.	sub.	1	21	6.9
Savannah (Dry Dock Wharf), Ga.	"	0	36	6.5
St. Augustine, Fla.	"	0	17	4.2
Key West, Fla.	add	0	54	1.2
Tampa Bay (Erment Key), Fla.	"	3	0	1.4
Cedar Keys (Depot Key), Fla.	"	4	58	2.6

HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	JANUARY.		FEBRUARY.		MARCH.	
	Best Tide.	N. Y. Tide.	Best Tide.	N. Y. Tide.	Best Tide.	N. Y. Tide.
	Morning.	Evening.	Morning.	Evening.	Morning.	Evening.
1	7 52	4 49	9 39	6 37	8 24	5 21
2	8 56	5 53	10 29	7 25	9 15	6 13
3	9 54	6 52	11 12	8 6	10 3	7 1
4	10 47	7 42	11 51	8 48	10 45	7 40
5	11 34	8 30	0 10	9 28	11 21	8 15
6	.....	9 17	0 48	10 4	11 57	8 55
7	0 39	9 58	1 26	10 39	0 15	9 31
8	1 21	10 36	2 3	11 16	0 51	10 8
9	2 1	11 14	2 42	11 59	1 29	10 44
10	2 39	11 56	3 23	0 21	2 9	11 24
11	3 19	0 17	4 9	1 9	2 51	.....
12	4 3	1 2	5 3	2 1	3 37	0 36
13	4 51	1 49	6 2	3 0	4 29	1 28
14	5 43	2 40	7 4	4 0	5 29	2 26
15	6 39	3 37	8 6	5 3	6 33	3 39
16	7 38	4 35	9 5	6 3	7 35	4 31
17	8 35	5 33	9 58	6 56	8 34	5 31
18	9 30	6 28	10 47	7 42	9 29	6 27
19	10 22	7 19	11 33	8 27	10 21	7 17
20	11 11	8 5	.....	9 16	11 9	8 3
21	11 55	8 52	0 41	10 1	11 54	8 51
22	0 17	9 39	1 26	10 46	0 18	9 41
23	1 3	10 22	2 16	11 37	1 8	10 29
24	1 48	11 6	3 7	0 5	2 0	11 21
25	2 35	11 56	4 4	1 3	2 53	.....
26	3 24	0 22	5 9	2 7	3 50	0 49
27	4 20	1 19	6 17	3 15	4 53	1 52
28	5 23	2 21	7 23	4 20	5 57	2 55
29	6 31	3 29	.....	.....	6 59	3 56
30	7 38	4 35	.....	.....	7 56	4 52
31	8 42	5 40	.....	.....	8 45	5 43

THE SIZE OF THE SEAS.

	Miles long.
Mediterranean	2,000
Caribbean	1,800
Red	1,400
Black	932
Baltic	600

HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	APRIL.		MAY.		JUNE.	
	Best Tide.	N. Y. Tide.	Best Tide.	N. Y. Tide.	Best Tide.	N. Y. Tide.
	Morning.	Evening.	Morning.	Evening.	Morning.	Evening.
1	9 31	6 29	9 36	6 34	10 31	7 27
2	10 12	7 9	10 17	7 14	11 13	8 7
3	10 51	7 45	10 58	7 52	11 54	8 52
4	11 26	8 20	11 35	8 31	0 15	9 35
5	.....	9 0	.....	9 14	0 59	10 18
6	0 21	9 39	0 37	9 56	1 43	11 0
7	1 0	10 17	1 19	10 36	2 28	11 47
8	1 41	10 57	2 4	11 21	3 13	0 12
9	2 25	11 44	2 50	.....	4 4	1 3
10	3 11	0 9	3 38	0 36	5 0	1 58
11	4 2	1 2	4 30	1 29	5 59	2 58
12	4 59	1 58	5 29	2 27	7 3	4 0
13	6 0	2 58	6 29	3 27	8 8	5 5
14	7 2	3 59	7 31	4 27	9 11	6 9
15	8 3	4 59	8 31	5 28	10 10	7 7
16	9 0	5 57	9 29	6 27	11 5	8 0
17	9 53	6 51	10 25	7 21	11 55	8 52
18	10 45	7 40	11 18	8 13	0 20	9 43
19	11 35	8 29	.....	9 7	1 8	10 28
20	.....	9 23	0 36	9 59	1 54	11 11
21	0 51	10 14	1 28	10 48	2 37	11 56
22	1 44	11 6	2 19	11 39	3 31	0 19
23	2 38	.....	3 8	0 6	4 7	1 6
24	3 33	0 31	3 58	0 57	4 55	1 53
25	4 30	1 29	4 49	1 47	5 46	2 44
26	5 28	2 26	5 41	2 39	6 39	3 36
27	6 24	3 21	6 33	3 30	7 33	4 29
28	7 17	4 14	7 24	4 21	8 26	5 22
29	8 7	5 4	8 13	5 9	9 15	6 13
30	8 53	5 50	9 0	5 58	10 5	7 3
31	.....	.....	9 46	6 44	.....	.....

AREA OF OCEANS IN SQUARE MILES.

Pacific	80,000,000
Atlantic	40,000,000
Indian	20,000,000
Southern	10,000,000
Arctic	5,000,000

HIGH TIDE. (STANDARD TIME.)

Day of Mo.	JULY.		AUGUST.		SEPTEMBER.	
	Rising.	Setting.	Rising.	Setting.	Rising.	Setting.
	Hour.	Min.	Hour.	Min.	Hour.	Min.
1	10 54	7 46	11 55	8 53	0 38	9 59
2	11 34	8 30	0 16	9 36	1 25	10 45
3	.....	9 16	1 0	10 19	2 15	11 36
4	0 38	9 58	1 45	11 2	3 7	0 14
5	1 22	10 39	2 31	11 52	4 5	1 4
6	2 6	11 23	3 20	0 19	5 10	2 8
7	2 51	.....	4 16	1 15	6 19	3 17
8	3 41	0 39	5 21	2 19	7 26	4 22
9	4 33	1 34	6 31	3 29	8 26	5 22
10	5 30	2 34	7 41	4 37	9 18	6 16
11	6 44	3 41	8 44	5 42	10 6	7 4
12	7 52	4 49	9 44	6 38	10 48	7 43
13	8 58	5 53	10 38	7 27	11 26	8 29
14	9 57	6 53	11 14	8 20	.....	8 59
15	10 54	7 46	11 54	8 52	0 22	9 37
16	11 37	8 33	0 14	9 32	0 55	10 14
17	.....	9 20	0 52	10 8	1 37	10 52
18	0 43	10 1	1 30	10 45	2 16	11 34
19	1 24	10 39	2 10	11 25	3 1	.....
20	2 5	11 26	2 49	.....	3 48	0 47
21	2 45	.....	3 38	0 31	4 42	1 44
22	3 26	0 36	4 22	1 24	5 40	2 38
23	4 11	1 16	5 16	2 14	6 42	3 39
24	5 1	1 59	6 16	3 14	7 42	4 38
25	5 56	2 54	7 17	4 14	8 39	5 37
26	6 50	3 59	8 16	5 13	9 32	6 39
27	7 51	4 48	9 16	6 8	10 22	7 19
28	8 47	5 44	10 2	7 0	11 9	8 33
29	9 39	6 37	10 49	7 44	11 54	8 52
30	10 29	7 25	11 33	8 28	0 18	9 44
31	11 18	8 7	.....	9 15	.....	.....

SIZE OF THE CREDIT LANCES.

	30th Nov.	31st Dec.
Supplies	280	110
Meals	280	60
Corn	170	40
Chickens	120	12

HIGH TIDE. (STANDARD TIME.)

Day of Mo.	OCTOBER.		NOVEMBER.		DECEMBER.	
	Rising.	Setting.	Rising.	Setting.	Rising.	Setting.
	Hour.	Min.	Hour.	Min.	Hour.	Min.
1	1 8	10 30	2 43	.....	3 18	0 10
2	2 1	11 23	3 37	0 35	4 2	1 1
3	2 56	.....	4 34	1 33	4 54	1 52
4	3 54	0 53	5 31	2 29	5 47	2 45
5	4 56	1 55	6 28	3 25	6 39	3 37
6	6 0	2 58	7 22	4 19	7 32	4 28
7	7 2	3 59	8 12	5 9	8 21	5 18
8	7 59	4 55	8 59	5 57	9 9	6 7
9	8 49	5 46	9 43	6 41	9 55	6 53
10	9 33	6 31	10 25	7 22	10 39	7 34
11	10 16	7 13	11 5	8 0	11 21	8 16
12	10 55	7 50	11 44	8 40	.....	9 0
13	11 32	8 28	0 4	9 23	0 23	9 42
14	.....	9 7	0 45	10 3	1 4	10 24
15	0 28	9 47	1 26	10 43	1 46	11 2
16	1 9	10 26	2 10	11 27	2 29	11 47
17	1 52	11 6	2 53	.....	3 13	0 13
18	2 34	11 53	3 40	0 39	4 1	1 0
19	3 20	0 18	4 32	1 34	4 55	1 58
20	4 10	2 9	5 26	2 26	5 36	2 54
21	5 5	2 3	6 28	3 25	7 0	3 57
22	6 4	3 2	7 29	4 25	8 6	5 3
23	7 5	4 2	8 30	5 27	9 9	6 7
24	8 4	5 0	9 29	6 27	10 10	7 8
25	9 0	5 58	10 27	7 23	11 7	8 0
26	9 53	6 31	11 20	8 14	11 57	8 55
27	10 46	7 41	.....	9 10	0 20	9 15
28	11 36	8 32	0 40	10 4	1 10	10 30
29	0 1	9 26	1 33	10 52	2 37	11 13
30	0 54	10 18	2 23	11 41	3 40	.....
31	1 48	11 10	.....	.....	3 26	0 34

SIZE OF THE CREDIT LANCES.

	30th Nov.	31st Dec.
Meals	270	50
Meals	250	40
Wine	240	40
Alcohol	200	20

FOR CALCULATING INTEREST.

Multiply the principal by as many hundreds as there are days, and

Year	per cent	Divide by
1911	66	100
1912	66	100
1913	66	100
1914	66	100
1915	66	100
1916	66	100
1917	66	100
1918	66	100
1919	66	100
1920	66	100
1921	66	100
1922	66	100
1923	66	100
1924	66	100
1925	66	100
1926	66	100
1927	66	100
1928	66	100
1929	66	100
1930	66	100
1931	66	100
1932	66	100
1933	66	100
1934	66	100
1935	66	100
1936	66	100
1937	66	100
1938	66	100
1939	66	100
1940	66	100
1941	66	100
1942	66	100
1943	66	100
1944	66	100
1945	66	100
1946	66	100
1947	66	100
1948	66	100
1949	66	100
1950	66	100
1951	66	100
1952	66	100
1953	66	100
1954	66	100
1955	66	100
1956	66	100
1957	66	100
1958	66	100
1959	66	100
1960	66	100
1961	66	100
1962	66	100
1963	66	100
1964	66	100
1965	66	100
1966	66	100
1967	66	100
1968	66	100
1969	66	100
1970	66	100
1971	66	100
1972	66	100
1973	66	100
1974	66	100
1975	66	100
1976	66	100
1977	66	100
1978	66	100
1979	66	100
1980	66	100
1981	66	100
1982	66	100
1983	66	100
1984	66	100
1985	66	100
1986	66	100
1987	66	100
1988	66	100
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1992	66	100
1993	66	100
1994	66	100
1995	66	100
1996	66	100
1997	66	100
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1999	66	100
2000	66	100
2001	66	100
2002	66	100
2003	66	100
2004	66	100
2005	66	100
2006	66	100
2007	66	100
2008	66	100
2009	66	100
2010	66	100
2011	66	100
2012	66	100
2013	66	100
2014	66	100
2015	66	100
2016	66	100
2017	66	100
2018	66	100
2019	66	100
2020	66	100
2021	66	100
2022	66	100
2023	66	100
2024	66	100
2025	66	100
2026	66	100
2027	66	100
2028	66	100
2029	66	100
2030	66	100
2031	66	100
2032	66	100
2033	66	100
2034	66	100
2035	66	100
2036	66	100
2037	66	100
2038	66	100
2039	66	100
2040	66	100
2041	66	100
2042	66	100
2043	66	100
2044	66	100
2045	66	100
2046	66	100
2047	66	100
2048	66	100
2049	66	100
2050	66	100
2051	66	100
2052	66	100
2053	66	100
2054	66	100
2055	66	100
2056	66	100
2057	66	100
2058	66	100
2059	66	100
2060	66	100
2061	66	100
2062	66	100
2063	66	100
2064	66	100
2065	66	100
2066	66	100
2067	66	100
2068	66	100
2069	66	100
2070	66	100
2071	66	100
2072	66	100
2073	66	100
2074	66	100
2075	66	100
2076	66	100
2077	66	100
2078	66	100
2079	66	100
2080	66	100
2081	66	100
2082	66	100
2083	66	100
2084	66	100
2085	66	100
2086	66	100
2087	66	100
2088	66	100
2089	66	100
2090	66	100
2091	66	100
2092	66	100
2093	66	100
2094	66	100
2095	66	100
2096	66	100
2097	66	100
2098	66	100
2099	66	100
2100	66	100

EXAMPLE—Increase on \$50 for 30 days at 4%
 $50 \times .04 = 2.00$, which divided by 30 = .0667 cents—the
 interest result.

FESTIVALS AND FASTS.

Epiphany	Jan. 6
Sophomore Sunday	Feb. 3
Presbyterian - Shrove Sunday	Feb. 10
Ask Wednesday	Feb. 17
First Sunday in Lent	Feb. 24
St. Patrick	Mar. 17
Palm Sunday	Mar. 24
Good Friday	April 5
Easter Sunday	April 7
Ezek. Sunday	April 14
Good Shepherd Sunday	April 21
Ascension Day - Holy Thursday	May 12
Pentecost - White Sunday	May 20
Trinity Sunday	June 2
Corpus Christi	June 6
St. John Baptist	June 24
Midsummer Day	June 25
St. Andrew	Nov. 30
First Sunday in Advent	Dec. 1
Christmas Day	Dec. 25

THE SEASONS.

[illegible]

CHROMONOLITHICAL CYCLES.

Domestic Line	1
Export	2
Loan Cycle & Grades Number	3
Sales Cycle	4
Rating Preference	5
Loan Period	6

ECLIPSES FOR THE YEAR.

In the year 1901 there will be two Eclipses of the Sun, one of the Moon, and a Lunar Apogee.

1. A LOWAR AFFULAR, May 2-4. Invisible to North America. Visible more or less to Europe, Asia, Africa, Australia, the extreme eastern tip of South America, and the Indian Ocean.

12. A TOTAL ECLIPSE OF THE SUN, May 18. In-
visible to North America. Visible to Australia, southern
Asia, the eastern part of Africa, and to the Indian Ocean,
the path of visibility passing through the islands of Mauri-
tius, Sumatra, Borneo and New Guinea.

27. Visible in part to the eastern coast of North America, Europe, Africa, and to Asia, Australia and the north Pacific and Indian Oceans. Occurring as follows:

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Non-entire Females	31	48	31
Non-entire Males	38	55	31

First contact off shadow, 135 degrees from the north point of the Wood's line toward the east.

Manuscript of Helms: www.ghostinthemask.com

III. An Annual Report of the SOR, November 11, 1911, to the North American. Visible to the greater part of Europe, Asia, northern Africa, the extreme northern edges of Australia, and to the Indian Ocean. The total annual passes through Africa, the Island of Ceylon, the Malay Peninsula, the Indian Ocean.

WIDENING AND EMENDING STARS.

Ministry will be: Evening: Start about 18 December 1993
Times 11 and 10 October 1993 and Morning: Start about 14 and
14 August 1993 and November 1993.

Visiting: will be: Meeting: Start: 11 April 2017; end: 1 May
 Meeting: Start: 1 May 2017; end: 1 May 2017.

Meeting: Start 11/20/09 and 4 Nov
 Ending: Start the rest of Nov year



MOON'S PHASES. (On Standard Time.)

FULL MOON.....
LAST QUARTER....
NEW MOON.....
FIRST QUARTER...

EAST'N DIVISION.

2d. 20h. 30m. M.
1st. 1h. 12m. A.
1st. 9h. 45m. A.
2d. 1h. 37m. A.

CENT. DIVISION.

2d. 9h. 30m. M.
1st. 6h. 13m. A.
1st. 8h. 43m. A.
2d. 6h. 38m. A.

LATITUDE OF BOSTON AND CHICAGO.

Day. Day of Week. Local Mean Time. Sun. Moon. R.&S. R.&S.

1	Fr.	17 14	5 34	17 11	5 30	17 7	5 26
2	Sa.	15 15	6 13	15 19	6 9	15 22	6 6
3	S	17 12	rises.	17 9	rises.	17 5	rises.
4	Mo.	15 18	6 43	15 21	6 44	15 25	6 47
5	Tu.	17 10	7 45	17 7	7 45	17 3	7 47
6	We.	15 20	8 45	15 24	8 44	15 27	8 45
7	Th.	17 8	9 44	17 5	9 42	17 1	9 42
8	Fr.	15 23	10 42	15 26	10 40	15 29	10 38
9	Sa.	17 5	11 40	17 2	11 37	16 59	11 34
10	S	15 26	morn.	15 28	morn.	15 32	morn.
11	Mo.	17 3	0 38	17 0	0 34	16 57	0 30
12	Tu.	15 28	1 35	15 31	1 30	16 54	1 26
13	We.	17 0	2 30	16 57	2 25	16 55	2 20
14	Th.	15 31	3 22	15 33	3 17	16 56	3 12
15	Fr.	16 37	4 11	16 35	4 6	16 52	4 2
16	Sa.	15 33	4 55	15 36	4 51	16 53	4 47
17	S	16 55	5 35	16 52	5 32	16 50	5 29
18	Mo.	15 36	sets.	15 38	sets.	15 41	sets.
19	Tu.	16 52	6 41	16 49	6 42	16 47	6 43
20	We.	15 38	7 57	15 41	7 56	15 43	7 57
21	Th.	16 49	9 12	16 46	9 10	16 44	9 9
22	Fr.	15 41	10 26	15 43	10 23	15 45	10 20
23	Sa.	16 46	11 38	16 44	11 34	16 42	11 30
24	S	15 43	morn.	15 45	morn.	15 47	morn.
25	Mo.	16 43	0 46	16 41	0 41	16 39	0 37
26	Tu.	15 46	1 48	15 48	1 43	15 49	1 38
27	We.	16 40	2 44	16 38	2 39	16 36	2 34
28	Th.	15 48	3 32	15 50	3 28	15 51	3 23
29	Fr.	16 40	4 24	16 37	4 19	16 35	4 15
30	Sa.	15 50	5 11	15 52	5 07	15 54	5 02
31	S	16 44	6 00	16 41	5 55	16 39	5 51



MOON'S PHASES. (On Standard Time.)

FULL MOON.....
LAST QUARTER....
NEW MOON.....
FIRST QUARTER...

EAST'N DIVISION.

2d. 3h. 4m. M.
1st. 8h. 6m. M.
2nd. 7h. 53m. M.
2nd. 11h. 37m. A.

CENT. DIVISION.

2d. 2h. 4m. M.
1st. 7h. 6m. M.
2nd. 6h. 53m. M.
2nd. 10h. 37m. A.

LATITUDE OF BOSTON AND CHICAGO.

Day. Day of Week. Local Mean Time. Sun. Moon. R.&S. R.&S.

1	Fr.	16 36	4 13	16 35	4 9	16 33	4 5
2	Sa.	15 51	5 48	15 52	5 45	15 53	5 43
3	S	16 33	5 21	16 32	5 19	16 30	5 18
4	Mo.	15 53	rises.	15 54	rises.	15 56	rises.
5	Tu.	16 30	6 34	16 29	6 34	16 28	6 35
6	We.	15 56	7 33	15 57	7 32	15 58	7 32
7	Th.	16 27	8 30	16 26	8 30	16 25	8 29
8	Fr.	15 58	9 30	15 59	9 27	16 0	9 25
9	Sa.	16 23	10 27	16 23	10 23	16 22	10 20
10	S	16 0	11 24	16 1	11 20	16 2	11 15
11	Mo.	16 20	morn.	16 19	morn.	16 19	morn.
12	Tu.	16 3	0 19	16 3	0 14	16 4	0 10
13	We.	16 16	1 11	16 16	1 6	16 15	1 1
14	Th.	16 5	2 0	16 5	1 55	16 6	1 51
15	Fr.	16 13	2 45	16 13	2 41	16 12	2 36
16	Sa.	16 7	3 26	16 8	3 22	16 8	3 19
17	S	16 9	4 3	16 9	4 0	16 9	3 59
18	Mo.	16 10	4 38	16 10	4 36	16 10	4 36
19	Tu.	16 6	5 12	16 6	5 11	16 6	5 12
20	We.	16 12	sets.	16 12	sets.	16 12	sets.
21	Th.	16 3	8 3	16 3	8 3	16 3	7 59
22	Fr.	16 14	9 19	16 14	9 16	16 14	9 12
23	Sa.	15 59	10 31	15 59	10 27	16 0	10 22
24	S	16 16	11 38	16 16	11 33	16 15	11 29
25	Mo.	15 56	morn.	15 56	morn.	15 57	morn.
26	Tu.	16 18	0 38	16 18	0 33	16 17	0 28
27	We.	15 52	1 30	15 53	1 25	15 53	1 21
28	Th.	16 21	2 13	16 20	2 9	16 19	2 5
29	Fr.	15 49	2 50	15 49	2 47	15 50	2 44
30	Sa.	16 23	3 22	16 22	3 20	16 21	3 18
31	S	15 45	3 51	15 46	3 49	15 47	3 49



MOON'S PHASES. (On Standard Time.)		EAST'N DIVISION.		CENT. DIVISION.	
FULL MOON	3d. 8h. 20m. A.	3d. 7h. 20m. A.			
LAST QUARTER	11d. 10h. 57m. A.	11d. 9h. 57m. A.			
NEW MOON	18d. 4h. 37m. A.	18d. 3h. 37m. A.			
FIRST QUARTER	25d. 11h. 15m. M.	25d. 10h. 15m. M.			

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. D.C. & ST. LOUIS.			
Local Mean Time.				Local Mean Time.				Local Mean Time.			
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.
1 Mo.	15	43	4 18	75	44	4 17	75	46	4 18		
2 Tu.	16	26	4 43	76	25	4 43	76	24	4 45		
3 We.	17	40	rises.	77	41	rises.	77	43	rises.		
4 Th.	18	29	7 22	78	27	7 19	78	26	7 18		
5 Fr.	19	36	8 20	79	38	8 17	79	30	8 14		
6 Sa.	20	31	9 17	80	29	9 13	80	28	9 9		
7 Su.	21	13	10 13	81	35	10 8	81	36	10 4		
8 Mo.	22	33	11 6	82	32	11 1	82	30	10 56		
9 Tu.	23	30	11 55	83	31	11 50	83	33	11 45		
10 We.	24	35	morn.	84	34	morn.	84	32	morn.		
11 Th.	25	26	0 40	85	28	0 36	85	30	0 31		
12 Fr.	26	38	1 21	86	36	1 17	86	34	1 13		
13 Sa.	27	53	1 58	87	55	1 55	87	57	1 52		
14 Su.	28	40	2 33	88	38	2 31	88	36	2 30		
15 Mo.	29	20	3 6	89	22	3 5	89	24	3 5		
16 Tu.	30	42	3 38	90	40	3 38	90	38	3 39		
17 We.	31	17	4 12	91	19	4 13	91	21	4 15		
18 Th.	1	44	sets.	92	42	sets.	92	39	sets.		
19 Fr.	2	14	8 7	93	16	8 3	93	19	7 59		
20 Sa.	3	46	9 19	94	14	9 14	94	41	9 10		
21 Su.	4	10	10 24	95	10	10 19	95	16	10 14		
22 Mo.	5	49	11 21	96	46	11 16	96	43	11 12		
23 Tu.	6	7	morn.	97	10	morn.	97	13	morn.		
24 We.	7	51	0 9	98	48	0 5	98	45	0 1		
25 Th.	8	40	0 49	99	7	0 46	99	10	0 43		
26 Fr.	9	53	1 23	100	30	1 21	100	47	1 19		
27 Sa.	10	1	1 54	101	4	1 52	101	5	1 51		
28 Su.	11	55	2 22	102	52	2 21	102	49	2 21		
29 Mo.	12	59	2 48	103	2	2 48	103	5	2 49		
30 Tu.	13	58	3 14	104	54	3 15	104	51	3 17		
31											



MOON'S PHASES. (On Standard Time.)		EAST'N DIVISION.		CENT. DIVISION.	
FULL MOON	3d. 1h. 19m. A.	3d. ch. 19m. A.			
LAST QUARTER	11d. 4h. 38m. M.	11d. 8h. 38m. M.			
NEW MOON	18d. 6h. 37m. M.	18d. 11h. 37m. A.			
FIRST QUARTER	25d. 6h. 37m. M.	25d. 11h. 37m. A.			

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. D.C. & ST. LOUIS.			
Local Mean Time.				Local Mean Time.				Local Mean Time.			
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.
1 We.	14	56	3 41	74	59	3 43	75	3	3 46		
2 Th.	15	0	4 10	76	56	4 13	76	53	4 16		
3 Fr.	16	53	rises.	77	57	rises.	77	0	rises.		
4 Sa.	17	2	8 8	78	58	8 4	78	55	7 59		
5 Su.	18	50	9 1	79	54	8 57	79	58	8 52		
6 Mo.	19	4	9 52	80	57	9 47	80	57	9 42		
7 Tu.	20	48	10 38	81	52	10 33	81	55	10 29		
8 We.	21	6	11 20	82	57	11 16	82	58	11 12		
9 Th.	22	46	11 58	83	49	11 55	83	54	11 52		
10 Fr.	23	9	morn.	84	5	morn.	84	0	morn.		
11 Sa.	24	43	0 30	85	47	0 30	85	52	0 28		
12 Su.	25	11	1 5	86	7	1 3	86	2	1 2		
13 Mo.	26	41	1 37	87	45	1 36	87	50	1 37		
14 Tu.	27	13	2 9	88	49	2 10	88	4	2 11		
15 We.	28	39	2 43	89	43	2 45	89	48	2 47		
16 Th.	29	15	3 20	90	11	3 23	90	6	3 27		
17 Fr.	30	37	4 3	91	4	4 7	91	46	4 11		
18 Sa.	31	17	sets.	92	12	sets.	92	8	sets.		
19 Su.	1	35	9 5	93	40	9 0	93	44	8 55		
20 Mo.	2	19	10 0	94	14	9 55	94	9	9 51		
21 Tu.	3	33	10 45	95	38	10 41	95	43	10 37		
22 We.	4	21	11 23	96	16	11 20	96	11	11 17		
23 Th.	5	32	11 55	97	36	11 53	97	41	11 52		
24 Fr.	6	23	morn.	98	18	morn.	98	13	morn.		
25 Sa.	7	30	0 24	99	35	0 23	99	40	0 23		
26 Su.	8	25	0 51	100	19	0 51	100	14	0 52		
27 Mo.	9	28	1 17	101	31	1 18	101	39	1 19		
28 Tu.	10	26	1 44	102	21	1 46	102	16	1 48		
29 We.	11	27	2 12	103	32	2 14	103	38	2 18		
30 Th.	12	28	2 42	104	23	2 45	104	17	2 49		
31 Fr.	13	26	3 15	105	31	3 19	105	37	3 24		



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
FULL MOON.....	2d. 4h. 53m. M.	2d. 3h. 53m. M.
LAST QUARTER....	9d. 5h. 0m. A.	9d. 4h. 0m. A.
NEW MOON.....	26d. 8h. 33m. M.	26d. 7h. 33m. M.
FIRST QUARTER...	23d. 3h. 59m. A.	23d. 2h. 59m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. CIN. & ST. LOUIS.			
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Local Mean Time.
1	SA.	74 26	3 54	74 31	3 58	74 36	4 4	74 36	4 4		
2		74 30	rises.	74 25	rises.	74 19	rises.	74 19	rises.		
3	Mo.	74 25	8 37	74 30	8 32	74 36	8 28	74 36	8 28		
4	Tu.	74 32	9 20	74 26	9 16	74 21	9 12	74 21	9 12		
5	We.	74 24	9 59	74 29	9 55	74 35	9 53	74 35	9 53		
6	Th.	74 33	10 35	74 28	10 32	74 22	10 31	74 22	10 31		
7	Fr.	74 23	11 8	74 29	11 6	74 34	11 5	74 34	11 5		
8	SA.	74 34	11 39	74 29	11 38	74 23	11 38	74 23	11 38		
9		74 23	morn.	74 28	morn.	74 34	morn.	74 34	morn.		
10	Mo.	74 36	0 9	74 30	0 9	74 24	0 10	74 24	0 10		
11	Tu.	74 22	0 41	74 28	0 42	74 34	0 45	74 34	0 45		
12	We.	74 37	1 16	74 31	1 18	74 25	1 22	74 25	1 22		
13	Th.	74 22	1 55	74 28	1 58	74 34	2 3	74 34	2 3		
14	Fr.	74 38	2 39	74 32	2 43	74 26	2 48	74 26	2 48		
15	SA.	74 22	3 31	74 28	3 36	74 34	3 41	74 34	3 41		
16		74 38	sets.	74 33	sets.	74 27	sets.	74 27	sets.		
17	Mo.	74 22	8 35	74 28	8 31	74 34	8 27	74 34	8 27		
18	Tu.	74 39	9 17	74 33	9 14	74 27	9 11	74 27	9 11		
19	We.	74 23	9 53	74 28	9 50	74 34	9 49	74 34	9 49		
20	Th.	74 40	10 24	74 34	10 22	74 28	10 22	74 28	10 22		
21	Fr.	74 23	10 53	74 29	10 52	74 34	10 53	74 34	10 53		
22	SA.	74 40	11 20	74 34	11 20	74 29	11 22	74 29	11 22		
23		74 23	11 46	74 29	11 47	74 35	11 49	74 35	11 49		
24	Mo.	74 40	morn.	74 35	morn.	74 29	morn.	74 29	morn.		
25	Tu.	74 24	0 14	74 30	0 16	74 35	0 19	74 35	0 19		
26	We.	74 40	0 44	74 35	0 47	74 29	0 51	74 29	0 51		
27	Th.	74 25	1 17	74 30	1 21	74 36	1 25	74 36	1 25		
28	Fr.	74 40	1 53	74 35	1 57	74 29	2 3	74 29	2 3		
29	SA.	74 25	2 34	74 31	2 39	74 37	2 44	74 37	2 44		
30		74 40	3 20	74 35	3 25	74 29	3 31	74 29	3 31		
31											



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
FULL MOON.....	1d. 6h. 17m. A.	1d. 5h. 17m. A.
LAST QUARTER....	8d. 8h. 20m. A.	8d. 7h. 20m. A.
NEW MOON.....	15d. 9h. 20m. A.	15d. 8h. 20m. A.
FIRST QUARTER...	23d. 8h. 58m. M.	23d. 7h. 58m. M.
FULL MOON.....	31d. 5h. 34m. M.	31d. 4h. 34m. M.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. CIN. & ST. LOUIS.			
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Local Mean Time.
1	Mo.	74 26	rises.	74 32	rises.	74 38	rises.	74 38	rises.		
2	Tu.	74 40	8 0	74 35	7 56	74 29	7 52	74 29	7 52		
3	We.	74 27	8 37	74 33	8 34	74 39	8 31	74 39	8 31		
4	Th.	74 49	9 11	74 34	9 9	74 29	9 8	74 29	9 8		
5	Fr.	74 29	9 43	74 34	9 42	74 40	9 42	74 40	9 42		
6	SA.	74 39	10 14	74 34	10 14	74 28	10 15	74 28	10 15		
7		74 29	10 45	74 36	10 46	74 41	10 48	74 41	10 48		
8	Mo.	74 38	11 18	74 33	11 20	74 28	11 23	74 28	11 23		
9	Tu.	74 31	11 53	74 37	11 56	74 42	morn.	74 42	morn.		
10	We.	74 38	morn.	74 32	morn.	74 27	0 0	74 27	0 0		
11	Th.	74 33	0 34	74 38	0 38	74 43	0 43	74 43	0 43		
12	Fr.	74 37	1 22	74 32	1 26	74 26	1 32	74 26	1 32		
13	SA.	74 34	2 16	74 39	2 21	74 45	2 27	74 45	2 27		
14		74 36	3 18	74 31	3 23	74 25	3 28	74 25	3 28		
15	Mo.	74 36	sets.	74 41	sets.	74 46	sets.	74 46	sets.		
16	Tu.	74 34	7 50	74 29	7 47	74 24	7 45	74 24	7 45		
17	We.	74 38	8 24	74 42	8 22	74 48	8 21	74 48	8 21		
18	Th.	74 33	8 54	74 28	8 53	74 23	8 53	74 23	8 53		
19	Fr.	74 39	9 22	74 44	9 22	74 49	9 23	74 49	9 23		
20	SA.	74 32	9 49	74 27	9 50	74 22	9 52	74 22	9 52		
21		74 41	10 18	74 46	10 18	74 51	10 20	74 51	10 20		
22	Mo.	74 30	10 44	74 25	10 47	74 20	10 50	74 20	10 50		
23	Tu.	74 43	11 15	74 47	11 18	74 52	11 23	74 52	11 23		
24	We.	74 28	11 50	74 24	11 54	74 19	11 59	74 19	11 59		
25	Th.	74 45	morn.	74 49	morn.	74 54	morn.	74 54	morn.		
26	Fr.	74 26	0 30	74 22	0 34	74 17	0 40	74 17	0 40		
27	SA.	74 47	1 15	74 51	1 20	74 56	1 26	74 56	1 26		
28		74 24	2 6	74 20	2 11	74 15	2 16	74 15	2 16		
29	Mo.	74 49	3 2	74 53	3 6	74 57	3 12	74 57	3 12		
30	Tu.	74 22	4 3	74 18	4 7	74 13	4 12	74 13	4 12		
31	We.	74 51	rises.	74 55	rises.	74 59	rises.	74 59	rises.		

Date.	Hour of W.T.	LATITUDE OF BOSTON AND CHICAGO		LAT. OF NEW YORK AND PHIL.		LAT. OF WASH. CITY, D. C. DIST.	
		Lat.	Long.	Lat.	Long.	Lat.	Long.
		R. & S.	Moon R. & S.	R. & S.	Moon R. & S.	R. & S.	Moon R. & S.
1	Th.	74	52	74	56	73	50
2	Fr.	77	19	8	17	75	11
3	Sa.	74	54	8	49	75	2
4	Su.	77	16	9	17	75	8
5	Mo.	74	56	9	56	75	4
6	Tu.	77	14	10	35	77	6
7	We.	74	58	11	20	75	5
8	Th.	77	11	morn	78	morn	7
9	Fr.	75	0	0	11	75	0
10	Sa.	77	2	1	8	77	2
11	Su.	75	2	10	5	75	2
12	Mo.	77	6	3	15	77	6
13	Tu.	77	3	4	21	75	11
14	We.	77	3	sets.	7	sets.	56
15	Th.	75	6	7	23	75	3
16	Fr.	77	0	7	51	76	7
17	Sa.	75	8	8	18	75	15
18	Su.	76	57	8	46	76	51
19	Mo.	75	11	9	16	75	16
20	Tu.	76	54	9	49	76	49
21	We.	75	13	10	26	75	18
22	Th.	76	51	11	8	76	40
23	Fr.	75	15	11	56	75	17
24	Sa.	76	48	morn	56	45	0
25	Mo.	75	17	0	49	75	22
26	Mo.	76	45	1	48	76	40
27	Tu.	75	19	2	51	75	24
28	We.	76	41	3	57	76	39
29	Th.	75	21	rises	53	23	rises
30	Fr.	76	38	6	47	76	34
31	Sa.	75	23	7	25	75	27

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. GIN. & ST. LOUIS.			
		Local Mean Time.				Local Mean Time.				Local Mean Time.	
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.
1	Fr.	25	57	25	26	7	59	25	28	8	57
2	Mo.	26	33	8	35	76	31	8	38	26	29
3	Tu.	25	26	9	18	25	28	9	22	25	30
4	We.	26	30	10	25	26	28	10	23	26	30
5	Th.	25	29	11	4	25	30	11	9	25	32
6	Fr.	26	26	morn	16	25	morn	16	23	morn	16
7	Sa.	25	31	0	4	25	32	0	8	25	34
8	Su.	26	33	1	7	26	22	1	11	26	20
9	Mo.	25	33	2	11	25	34	2	14	25	35
10	Tu.	26	19	3	15	26	18	3	17	26	17
11	We.	25	35	4	19	25	36	4	20	25	37
12	Th.	26	16	5	26	26	15	5	21	26	14
13	Fr.	25	37	sets.	25	25	sets.	25	30	sets.	25
14	Sa.	26	12	6	48	26	12	6	50	26	11
15	Su.	25	39	7	18	25	40	7	21	25	41
16	Mo.	26	9	7	50	26	8	7	53	26	8
17	Tu.	25	41	8	25	25	42	8	29	25	43
18	We.	26	5	9	4	26	5	9	8	26	4
19	Th.	25	43	9	49	25	44	9	54	25	44
20	Fr.	26	2	10	39	26	1	10	44	26	1
21	Sa.	25	46	11	34	25	46	11	38	25	46
22	Su.	25	58	morn	55	25	58	morn	55	25	58
23	Mo.	25	48	0	33	25	48	0	37	25	48
24	Tu.	25	55	1	36	25	55	1	39	25	55
25	We.	25	50	2	43	25	50	2	45	25	50
26	Th.	25	51	3	54	25	51	3	55	25	51
27	Fr.	25	52	5	6	25	52	5	6	25	52
28	Sa.	25	48	rises.	45	25	48	rises.	45	25	48
29	Su.	25	54	6	32	25	54	6	35	25	53
30	Mo.	25	44	7	14	25	45	7	18	25	45



MOON'S PHASES. (On Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
LAST QUARTER.....	4d. 2h. 52m. A.	4d. 2h. 52m. A.
NEW MOON.....	12d. 8h. 10m. M.	12d. 7h. 10m. M.
FIRST QUARTER.....	20d. 0h. 57m. A.	20d. 1h. 57m. M.
FULL MOON.....	27d. 10h. 6m. M.	27d. 9h. 6m. M.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. DC. & ST. LOUIS.			
Local Mean Time.				Local Mean Time.				Local Mean Time.			
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.
1	Tu.	75 56	8 3	75 56	8 7	75 55	8 13				
2	We.	75 41	8 58	75 41	9 3	75 42	9 8				
3	Th.	75 59	9 58	75 58	10 3	75 57	10 8				
4	Fr.	75 37	11 0	75 38	11 4	75 39	11 9				
5	Sa.	76 1	moon	76 0	moon	75 59	moon				
6	S.	75 34	0 4	75 35	0 7	75 36	0 12				
7	Mo.	76 3	1 9	76 2	1 12	76 1	1 15				
8	Tu.	75 31	2 13	75 32	2 15	75 33	2 17				
9	We.	76 5	3 15	76 4	3 16	76 3	3 18				
10	Th.	75 27	4 15	75 28	4 15	75 30	4 16				
11	Fr.	76 8	5 13	76 6	5 12	76 5	5 12				
12	Sa.	75 24	sets.	75 25	sets.	75 27	sets.				
13	S.	76 10	5 50	76 8	5 53	76 7	5 57				
14	Mo.	75 21	6 25	75 22	6 29	75 24	6 33				
15	Tu.	76 13	7 3	76 11	7 7	76 9	7 13				
16	We.	75 17	7 46	75 19	7 51	75 21	7 56				
17	Th.	76 15	8 33	76 13	8 38	76 11	8 43				
18	Fr.	75 14	9 24	75 16	9 28	75 18	9 34				
19	Sa.	76 17	10 21	76 15	10 25	76 13	10 30				
20	S.	75 11	11 22	75 13	11 25	75 15	11 30				
21	Mo.	76 19	moon	76 17	moon	76 15	moon				
22	Tu.	75 8	0 25	75 10	0 27	75 13	0 31				
23	We.	76 22	1 32	76 19	1 32	76 17	1 35				
24	Th.	75 5	2 40	75 8	2 40	75 10	2 42				
25	Fr.	76 24	3 52	76 22	3 51	76 19	3 52				
26	Sa.	75 2	5 6	75 5	5 4	75 7	5 3				
27	S.	76 26	rises.	76 24	rises.	76 21	rises.				
28	Mo.	75 0	5 51	75 2	5 55	75 5	6 0				
29	Tu.	76 29	6 46	76 26	6 50	76 24	6 56				
30	We.	74 57	7 45	75 0	7 50	75 3	7 55				
31	Th.	76 32	8 49	76 29	8 53	76 26	8 59				



MOON'S PHASES. (On Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
LAST QUARTER.....	2d. 2h. 24m. M.	2d. 1h. 24m. M.
NEW MOON.....	11d. 2h. 34m. M.	11d. 1h. 34m. M.
FIRST QUARTER.....	19d. 3h. 23m. M.	19d. 2h. 23m. M.
FULL MOON.....	25d. 8h. 17m. A.	25d. 7h. 17m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. DC. & ST. LOUIS.			
Local Mean Time.				Local Mean Time.				Local Mean Time.			
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.
1	Fr.	76 33	9 55	76 30	9 59	76 27	10 3				
2	Sa.	74 52	11 1	74 56	11 4	74 59	11 8				
3	S.	76 35	moon	76 32	moon	76 29	moon				
4	Mo.	74 50	0 5	74 54	0 7	74 57	0 10				
5	Tu.	76 38	1 8	76 35	1 9	76 31	1 11				
6	We.	74 48	2 8	74 51	2 8	74 55	2 9				
7	Th.	76 40	3 7	76 37	3 6	76 34	3 6				
8	Fr.	74 46	4 5	74 49	4 3	74 53	4 3				
9	Sa.	76 43	5 3	76 39	5 0	76 36	4 59				
10	S.	74 44	6 1	74 47	5 58	74 51	5 55				
11	Mo.	76 45	sets.	76 42	sets.	76 38	sets.				
12	Tu.	74 41	5 43	74 45	5 47	74 49	5 53				
13	We.	76 48	6 29	76 44	6 34	76 40	6 39				
14	Th.	74 40	7 29	74 43	7 24	74 47	7 30				
15	Fr.	76 51	8 15	76 46	8 19	76 42	8 24				
16	Sa.	74 38	9 13	74 42	9 16	74 46	9 21				
17	S.	76 53	10 13	76 49	10 16	76 45	10 19				
18	Mo.	74 36	11 16	74 40	11 18	74 45	11 21				
19	Tu.	76 55	moon	76 51	moon	76 47	moon				
20	We.	74 35	0 22	74 39	0 23	74 43	0 25				
21	Th.	76 58	1 30	76 54	1 30	76 49	1 31				
22	Fr.	74 33	2 40	74 38	2 39	74 42	2 39				
23	Sa.	77 0	3 53	76 56	3 51	76 51	3 49				
24	S.	74 32	5 7	74 37	5 4	74 41	5 1				
25	Mo.	77 3	6 21	76 58	6 17	76 51	6 14				
26	Tu.	74 31	rises.	74 36	rises.	74 40	rises.				
27	We.	77 5	6 29	77 0	6 33	76 55	6 39				
28	Th.	74 30	7 37	74 35	7 41	74 39	7 46				
29	Fr.	77 7	8 45	77 2	8 48	76 57	8 53				
30	Sa.	74 29	9 52	74 34	9 54	74 39	9 58				
...				



MOON'S PHASES (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
LAST QUARTER...	2d. 4h. 49m. A.	2d. 3h. 49m. A.
NEW MOON.....	10d. 9h. 53m. A.	10d. 8h. 53m. A.
FIRST QUARTER...	18d. 3h. 35m. A.	18d. 2h. 35m. A.
FULL MOON.....	25d. 7h. 16m. N.	25d. 6h. 16m. N.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. CIN. & ST. LOUIS.			
Day.	Day of Wk.	Local Mean Time.		Local Mean Time.		Local Mean Time.		Local Mean Time.		Local Mean Time.	
		Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.
1	S	7 9	10 56	7 4	10 57	7 6	11 0	7 6	11 0		
2	Mo.	7 28	11 59	7 4	11 59	7 6	morn	7 6	morn		
3	Tu.	7 11	morn	7 6	morn	7 1	0 1	7 1	0 1		
4	We.	7 28	1 0	7 33	1 0	7 38	1 0	7 3	1 0		
5	Th.	7 13	1 59	7 8	1 58	7 3	1 57	7 3	1 57		
6	Fr.	7 28	2 58	7 33	2 56	7 38	2 55	7 3	2 55		
7	Sa.	7 15	3 56	7 10	3 53	7 5	3 51	7 5	3 51		
8	S	7 28	4 53	7 33	4 49	7 38	4 47	7 3	4 47		
9	Mo.	7 17	5 47	7 12	5 43	7 7	5 40	7 7	5 40		
10	Tu.	7 28	6 40	7 33	6 35	7 38	6 32	7 3	6 32		
11	We.	7 10	sets.	7 14	sets.	7 8	sets.	7 8	sets.		
12	Th.	7 28	6 9	7 33	6 13	7 39	6 19	7 3	6 19		
13	Fr.	7 21	7 6	7 16	7 10	7 10	7 14	7 10	7 14		
14	Sa.	7 28	8 6	7 34	8 9	7 39	8 13	7 3	8 13		
15	S	7 22	9 8	7 17	9 10	7 11	9 13	7 11	9 13		
16	Mo.	7 29	10 12	7 34	10 13	7 40	10 14	7 40	10 14		
17	Tu.	7 23	11 17	7 18	11 17	7 13	11 18	7 13	11 18		
18	We.	7 29	morn	7 35	morn	7 40	morn	7 40	morn		
19	Th.	7 25	0 23	7 20	0 22	7 14	0 22	7 14	0 22		
20	Fr.	7 30	1 32	7 36	1 30	7 41	1 29	7 41	1 29		
21	Sa.	7 26	2 43	7 21	2 40	7 15	2 38	7 15	2 38		
22	S	7 31	3 55	7 37	3 51	7 42	3 49	7 42	3 49		
23	Mo.	7 27	5 6	7 22	5 2	7 16	4 58	7 16	4 58		
24	Tu.	7 32	6 15	7 38	6 10	7 43	6 7	7 43	6 7		
25	We.	7 28	rises.	7 22	rises.	7 17	rises.	7 17	rises.		
26	Th.	7 34	6 20	7 39	6 24	7 44	6 28	7 44	6 28		
27	Fr.	7 29	7 30	7 23	7 33	7 18	7 37	7 18	7 37		
28	Sa.	7 35	8 38	7 40	8 40	7 46	8 43	7 46	8 43		
29	S	7 29	9 44	7 24	9 45	7 18	9 47	7 18	9 47		
30	Mo.	7 36	10 47	7 42	10 47	7 47	10 48	7 47	10 48		
31	Tu.	7 30	11 49	7 34	11 48	7 19	11 48	7 19	11 48		

Ther. TUESDAY, JAN. 1, 1901 Wea.

I place down 68 specimens
of Pl. Mex., 1900, for the
Mexican herbaria.
Will Graham,
George Rees,
Fred. H. Horsford
call on me.

Ther. WEDNESDAY 2 Wea.

I continue mounting as
yesterday -

Ther.

THURSDAY, JAN. 3, 1901

Wea.

I mount 80 sheets of Pl. Mex.
1900 for Mexican herbaria -
minus the tickets.

Ther.

SATURDAY, JAN. 5, 1901

Wea.

I finish my task of mounting
these sets of Pl. Mex., 1900.

Ther.

FRIDAY 4

Wea.

Occupied as yesterday I
mount 84 sheets.

Ther.

SUNDAY 6

Wea.

Dr. Barney
Lester Biddle and
Fred Starford
call on me -

Ther.

MONDAY, JAN. 7, 1901

Wea.

I rest and do begin selecting
specimens -

Ther.

WEDNESDAY, JAN. 9, 1901

Wea.

I mount selections of 15's
for A. B. Pingle -

Ther.

TUESDAY 8

Wea.

I select from my Mex-
ican plants in 15's specimens
for mounting into A. B. Pingle -

Ther.

THURSDAY 10

Wea.

Engaged as yesterday -

Ther.

FRIDAY, JAN. 11, 1901

Wea.

I lay out plants of
15's for Harvard, U.S. Nat^l
and Mexican herbaria.

Ther.

SATURDAY 12

Wea.

A busy day with Pres.
Baird in my herbarium.

Ther.

MONDAY 14

Wea.

Fasten tickets to my sheets
of specimens last mounted, those
collected in 15's.

Ther. TUESDAY, JAN. 15, 1901 Wea.

I mount my plants in Herbarium -

Ther. THURSDAY, JAN. 17, 1901 Wea.

I finish mounting plants
for the Mexican Institute
and give on those for the
Mexican Museum.

Ther. WEDNESDAY 16 Wea.

I mount 66 plants for the
National Institute, Mexico -

Ther. FRIDAY 18 Wea.

I finish mounting plants
for the Mexican Museum and
give on plants for my own
herbarium derived from
Mrs. Brainerd and Mr.
Cusick.

Ther.

SATURDAY, JAN. 19, 1901

Wea.

I put into my herbarium
the lot of plants from Mr.
Curtiss.

And begin looking over
a large lot of plants from
A. St. Curtiss, Florida to divide
them between myself and
Peter MacLean of Cape Town.

Ther.

SUNDAY 20

Wea.

I keep on assorting the
Curtiss plants.

Ther.

MONDAY, JAN. 21, 1901

Wea.

I assort Curtiss plants
while Frank poisons them.

Ther.

TUESDAY 22

Wea.

Sitto -

Ther.

SUNDAY, JAN. 27, 1901

Wea.

Before dinner I have finished sorting the Curtiss plants as far as received.

I call at Cousin George's in the afternoon.

Ther.

TUESDAY, JAN. 29, 1901

Wea.

I copy my list to send the copy to the printer.

And begin mounting the Curtiss plants.

Ther.

MONDAY 28

Wea.

A day of exhaustion on which I can not apply myself to work.

I only mount a few Mexican plants.

Ther.

WEDNESDAY 30

Wea.

I mount Curtiss plants - 42 sheets.

Ther. THURSDAY, JAN. 31, 1901 Wea.

I mount Curtiss plants.

Ther. SATURDAY, FEB. 2, 1901 Wea.

Sitto.

Bert and Maude come in the evening.

Ther. FRIDAY, FEB. 1 Wea.

Sitto.

Ther. SUNDAY 3 Wea.

I mount a few Curtiss plants and put them into the cans.

Then begin supervising the 620 plants just received from Prof. Peter Mac Owar of Cape Town, South Africa.

Ther.

MONDAY, FEB. 4, 1901

Wea.

I work over S. African plants

Ther.

WEDNESDAY, FEB. 6, 1901

Wea.

I mount the 26 species of
Erica found among the South
African plants -

Then I return to the mount-
ing of Curtiss plants - 25 sheets -

Ther.

TUESDAY 5

Wea.

I finish assorting S. African
plants, while Hans poisons them

Ther.

THURSDAY 7

Wea.

I mount 57 sheets of Curtiss
plants -

Ther.

FRIDAY, FEB. 8, 1901

Wea.

I put in cases the plants
mounted yesterday and
mount more.

Ther.

SUNDAY, FEB. 10, 1901

Wea.

I mount a few plants,
and then dine at my
brothers and call at Carlise
Parker's.

Ther.

SATURDAY 9

Wea.

I mount some Curtiss
plants.

Ther.

MONDAY 11

Wea.

I am still mounting Curtiss
plants.

Ther.

TUESDAY, FEB. 12, 1901

Wea.

We advance preparation
for making our distribution
and I mount some Curtiss
plants -

Ther.

THURSDAY, FEB. 14, 1901

Wea.

I finish mounting Curtiss
plants of 1896.

Ther.

WEDNESDAY 13

Wea.

In the morning I attend to my
mail, then look over a last
bundle of plants from A. S. Curtiss,
Collection of 1900.

Ther.

FRIDAY 15

Wea.

I mount about 70 plants
of Curtiss plants of 1900.

Ther.

SATURDAY, FEB. 16, 1901

Wea.

Fitts.

Ther.

MONDAY, FEB. 18, 1901

Wea.

I write letters to
 Oswald Weigel
 Gabriel Alcover.

Put into cases the plants glued
 down yesterday;

and attach tickets to my set
 of mounted specimens of Pl.
 Mex., 1900.

Ther.

SUNDAY 17

Wea.

I rest for a time and
 mount some 50 sheets.

Ther.

TUESDAY 19

Wea.

I put plants into cases.

Ther. WEDNESDAY, FEB. 20, 1901 Wea.

I finish putting into cases my collection of 1900-

Frank attaches tickets to sheets of mounted plants for Mexican herbaria.

Ther. THURSDAY 21 Wea.

I correct tickets and receive a call from Tom O'Neil. Charles Lester comes towards night.

Ther. FRIDAY, FEB. 22, 1901 Wea.

I mount Curtiss plants again -

Ther. SATURDAY 23 Wea.

Little -

Ther.

SUNDAY, FEB. 24, 1901

Wea.

Ditto.

Ther.

TUESDAY, FEB. 26, 1901

Wea.

I strap and put into cases the plants mounted yesterday and mount 45 sheets more being the last of the Curtis plants.

Ther.

MONDAY 25

Wea.

I pin down 78 specimens of Curtis' plants.

Charles H. Estey returns home.

Ther.

WEDNESDAY 27

Wea.

I assort and clean a lot of plants from Auburn, Ala.

Ther.

THURSDAY, FEB. 28, 1901

Wea.

I mount the plants from F.S. Earle, Auburn, Alabama, 75 sheets.

Ther.

SATURDAY, MAR. 2, 1901

Wea.

I make up a package of plants to return to F.S. Earle.

Ther.

FRIDAY, MAR. 1

Wea.

I put into cases the plants from Prof. Earle, listing them at the same time.

Then I cover names of grasses in my herbarium in the genera *Panicum*, *Chloris*, and *Agropyrum*.

Ther.

SUNDAY 3

Wea.

I collate Eggleston's lists and correct names in my herbarium.

Ther.

MONDAY, MAR. 4, 1901

Wea.

I put up shulms, and we begin making up sets, Bert coming to help - we lay out 35 species.

Ther.

TUESDAY 5

Wea.

Francis attends town meeting and Bert and I lay out 60 species.

Ther.

WEDNESDAY, MAR. 6, 1901

Wea.

Francis helps us some between shows, and we lay out 60 species.

Ther.

THURSDAY 7

Wea.

We lay out 35 plants by mid-day then finishing the set. Bert goes home in the afternoon and I tie up sets.

Ther.

FRIDAY, MAR. 8, 1901 //

Wea.

We finish tying up sets,
and begin boxing them.

Ther.

SATURDAY 9

Wea.

We finish boxing sets and
marking boxes for shipment.

Ther.

MONDAY 11 //

Wea.

Hause carries boxes of plants
to the railroad station,
while I mail parcels of
plants, pack up the set for
Vacubaya Museum, 300
specimens, and put up a lot of
lignous plants for Prof.
Sargent.

Ther.

SUNDAY, MAR. 10, 1901

Wea.

I write letters, then visit
my brother's and Cousin Kate's

Ther.

TUESDAY, MAR. 12, 1901

Wea.

I write.

And begin selecting a lot
of plants to fill the order of
Mr. Semetris, Cuernavaca, Mo.

Ther.

THURSDAY, MAR. 14, 1901

Wea.

I pack mounted plants
designed for the Mexican
herbaria.

Ther.

WEDNESDAY 13

Wea.

I finish a package of plants
for Mr. Semetris and go to the
post office before dinner -
afterwards write a letter to
Dr. Rose -

Ther.

FRIDAY 15

Wea.

I begin selecting lots of
plants for exchange with Mr.
Cyclopedia and Prof. Aron Nelson
of Wyoming.

Ther. SATURDAY, MAR. 16, 1901 Wea.

I keep at the work began
yesterday besides helping Frank
draw hay.

Ther. MONDAY, MAR. 18, 1901 Wea.

I help Frank draw hay
again and put up plants.

Ther. SUNDAY 17 Wea.

I put up plants.

Ther. TUESDAY 19 Wea.

I put up plants.

Ther. WEDNESDAY, MAR. 20, 1901 Wea.

I finish making up the
list of 1000 plants for exchange
with Prof. Aven Nelson of
Saranac, Wyoming.

Ther. FRIDAY, MAR. 22, 1901 Wea.

I write to John Mc Gleshan
and then mount S. African
plants.

Ther. THURSDAY 21 Wea.

I mount South African
plants.

Ther. SATURDAY 23 Wea.

I mount South African
plants Crassulacae and Cape bulbs.

Ther.

SUNDAY, MAR. 24, 1901

Wea.

I mount a few plants.
And walk to Linkley Macomber's
just before nightfall.

Ther.

MONDAY 25

Wea.

I return home in the morning.

Ther.

TUESDAY, MAR. 26, 1901

Wea.

I mount S. African plants -
I walk to Linkley Macomber's
just before nightfall.

Ther.

WEDNESDAY 27

Wea.

Litto.

Ther. THURSDAY, MAR. 28, 1901 Wea.

It takes all the forenoon to put into cases the plants mounted yesterday and the rest of the afternoon is given to Edgar Segre to inform and advise him about Arizona.

Ther. FRIDAY 29 Wea.

I mount S. African plants and put them away.

Ther. SATURDAY, MAR. 30, 1901 Wea.

Sitto.

Ther. SUNDAY 31 Wea.

I put away some mounted plants; then visit my brother's.

Ther. MONDAY, APRIL 1, 1901 Wea.

I visit Henry Brindle's in Brandon, then go to Addison to see Mary Marshall, and stop over night there.

Ther. TUESDAY 2 Wea.

I return from Addison by way of Burlington to my clothing, etc.

Ther. WEDNESDAY, APRIL 3, 1901 Wea.

I find myself tired and lame, so I take a long nap in the forenoon.

In the afternoon I assort some plants just received from Mr. Eggleston.

Ther. THURSDAY 4 Wea.

I finish assorting the Eggleston plants, then finish packing my box for Cape Town and send it forward.

So come choras out of doors.

Ther. FRIDAY, APRIL 5, 1901 // Wea.

I mount over 40 plants of
S. African plants.

Ther. SUNDAY, APRIL 7, 1901 Wea.

I rest - and restore labels
and remount specimens in my
herbarium.

Ther. SATURDAY 6 Wea.

I work in herbarium restoring
tickets, etc.

Ther. MONDAY 8 Wea.

I restore a few labels
and remount a few specimens.

Ther. TUESDAY, APRIL 9, 1901 Wea.

I restore many labels.

Ther. THURSDAY, APRIL 11, 1901 Wea.

I devote this day to my old
friend Gemma Hall now Mrs.
Gemma W. Lyoff,
Newberg,
Oregon,
visiting her old home to
gather wild plants to send her
and writing her a long letter.

Ther. WEDNESDAY 10 Wea.

I do jobs.

Ther. FRIDAY 12 Wea.

I go to Burlington walking
to the depot and back.

Ther. SATURDAY, APRIL 13, 1901 Wea.

I rest, do jobs in preparation for leaving home, and walk to Lindley Malomosi before night comes.

Ther. MONDAY, APRIL 15, 1901 Wea.

I rest on some tickets and remount a few plants.

Ther. SUNDAY 14 Wea.

I visit my brother and Kate, and do a few small jobs.

Ther. TUESDAY 16 Wea.

Today, when the springing grass scarcely gives a tinge of green to the brown fields, and as soon as the roads are dry and smooth I leave home again to go out on another long botanical journey through Mexico.

Ther. WEDNESDAY, APRIL 17, 1901 Wea.

Daylight returns as our train arrives at Cobourg. Throughout Canada well green mingles with the brown in the fields and farmers are using plows and harrows. The sky becomes overcast and now and again light showers fall.

We reach Port Huron at noon where I am compelled to wait till 3.40 P. M. for a train that will let me off at Sault City. There I wait two hours for train to North Branch, whence by hired conveyance I reach Mr. McGlashan's by

Ther. 9. AM THURSDAY 18 Wea.

I was welcomed heartily last evening by John.

This morning we wake to find the rain of last evening turned to snow. It continues falling till midday, then by nightfall is melted away. We take dinner with James McGlashan then call at Mr. Black's.

Ther. FRIDAY, APRIL 19, 1901 Wea.

The sun shines out this morning and the ground is slightly frozen.

I write to Frank and to Mrs. Ahrens.

John and I drive into town to learn about tickets and to get some things to complete his outfit.

Ther. SATURDAY 20 Wea.

The wind still blows high from the north, and the surface of the ground is again frozen.

I walk to the station, while John's father takes him and our valises.

We leave North Branch at 8.45 A.M. and arrived in Sault about noon, wait there till 3.00 P.M. Now the sky begins getting a little snow, and by nightfall we have run into a snow storm which the papers tell us is prevailing over eastern Ohio and W. Va.

Ther. SUNDAY, APRIL 21, 1901 Wea.

Throughout the night we have been traveling amidst falling snow, rushing waters and landslides. We count ourselves fortunate to get over the road without mishaps. Only about an hour late we reach Washington shortly after 2:00 P. M. and take a room in a hotel.

We visit the capitol grounds and ride between the Navy Yard and Georgetown, a light rain falling.

Ther. MONDAY 22 Wea.

Dr. Rose falls in with us on the street and takes us into the National Museum, where I soon begin the identification, as far as I am able to do it off hand, of bundles of Mexican plants.

Here I meet Dr. Palmer, Dr. Francis Knowlton, Lester F. Ward and others.

We take supper at Dr. Rose's and are put up in the house of a neighbor of his.

Sky clouded and weather cool.

Ther. TUESDAY, APRIL 23, 1901 Wea.

Sky still overcast.

I work assiduously at naming Palmer plants.

Prof. E. L. Morris studying Plantago visits me.

It rained all night.

Ther. WEDNESDAY 24 Wea.

A rainy day.

In the Museum as before. Dr. Merriam called on me as did Stewardson Brown of the Philadelphia Academy of Sciences.

I visit Prof. Lamson Scribner in the Department of Agriculture. And make the acquaintance of Wm. R. Maxon and R. M. Harper, two young collectors working in the Museum.

Ther. THURSDAY, APRIL 25, 1901 Wea.

I work another day in the Museum.

It is a lousy day.

Ther. SATURDAY, APRIL 27, 1901 Wea.

Another clear day breeze over Washington.

I leave the National Herbarium long enough to call on the hybridizers of the Department of Agriculture Messrs. Webber and Callerton.

Ther. FRIDAY 26 Wea.

This morning the sun shines out clear and lights up the branches of the parks of Washington.

In the National Herbarium today I discover *Aristolochia Fendleri*, Rose which Dr. Watson had named *A. longicauda*, a name pre-occupied by Masters.

Ther. SUNDAY 28 Wea.

In the forenoon John and I visit the National Zoological Gardens.

In the afternoon the Corcoran Gallery of Art.

The day is cloudless and warm.

Ther. MONDAY, APRIL 29, 1901 Wea.

Another bright warm day.

John and I in the morning see President McKinley and party take their train at the Pennsylvania Depot for a journey to California. Then we visit the home and tomb of George Washington at Mt. Vernon.

Finally I take supper at Dr. Ross.

Ther. TUESDAY 30 Wea.

In the morning we buy tickets and get our trunks checked.

I work all day and till late in the Museum with Dr. Ross.

At 9.00 P.M. we leave Washington by the Southern Ry. bound for El Paso.

Ther. WEDNESDAY, MAY 1, 1901 Wea.

I awake early near Danville, N.C. - we pass Atlanta before dark and turn into our berth about 9.00 P.M. at Montgomery.

The day proves too warm for comfort in the Sunshine, but on the train we are tolerably comfortable. We see *Cornus florida*, Nutt. in flower all along the way and many other trees shrubs and herbs.

Ther. THURSDAY 2 Wea.

We arise at daybreak near Biloxi, Miss.

It is another bright day with (happily for us) a cool breeze from the north. Later a fresh breeze from off the Gulf ensures comfort as we ride through the cane and rice fields of Louisiana. the cane and rice springing up. Corn we see knee high.

Ther.

FRIDAY, MAY 3, 1901

Wea.

About sunrise our train
leaves Schulenburg, Texas
and rides over the flowering
prairies east of San Antonio.
About San Antonio appear
evidences of drought, which
gets worse and worse to
Del Rio. Then about Spofford
there is seen a little verdure.
Our train gets several hours
behind schedule time.

Ther.

SATURDAY 4

Wea.

I am up before sunrise
(at 6:00 A.M.) this morning to
find our train on the desert of
Western Texas nearing Fort Bel.
We reach El Paso about 10:00 A.M.
where we have a busy day
unpacking trunks, getting
them through the Mexican
Custom House and into
the Mex. Cent. baggage
room.

El Paso is hanging out
flags and bunting to welcome
President Mc Kinley tomorrow
morning.

Stimulorum vagabundum, J. V. G. 85-01

Ther.

SUNDAY, APRIL 5, 1901

Wea.

I am out before sunrise
to cross the river and walk
back to the Mexican hills
and collect a half dozen
plants in 1850. X

Then I get breakfast, buy
food for the journey and we
get to the station, where our
train for Mexico City leaves at
10:00 A.M. and from Juarez
at 11:00 P.M.

When crossing the sandhills
I notice a good number of
plants in flower, but no
evidence of rain appear on all
the way to Chihuahua.

Ther.

MONDAY 6

Wea.

Morning finds our train
just past Concho Station.
A warm dusty ride to beyond
Sacatecas by night fall.
No evidences of rain in
all the way.

Ther.

TUESDAY, MAY 7, 1901

Wea.

Daylight finds us at Amritsar, high noon in Mexico City, where we settle again in Room 22, Hotel Buena Vista.

Later I deliver to El Instituto Mexico Nacional my collection of Pl. Mex. 1900.

Ther.

WEDNESDAY 8

Wea.

I deliver to Mr. Ferrari Perry my collection of Pl. Mex., 1900, 507 species - another collection of the same to Dr. Urbina of the National Museum, 300 species.

Then attach tickets to a lot of mounted plants brought - to the Institute last July.

Ther.

THURSDAY, MAY 9, 1901

Wea.

John and I go out to Tacuba to engage Bartolome Varona and then walk on to collect several plants in 15-5.

Towards night I go to the general post office to get a registered letter from Frank.

At 7.30 P.M. we three leave for a short trip to Jalisco.

Ther.

FRIDAY 10

Wea.

Day finds our belated train at Salamanca; at Aguascalientes we wait the passing of another belated train; so, we don't reach Guadalupe until about 3.00 P.M.

Here we settle with our baggage in a room in Nuevo Mundo (New World Inn) and after taking a bath, I visit the Howlands.

They testify to this season being unusually warm - I never saw this vicinity so dry as it is today.

Ther.

SATURDAY, MAY 11, 1901

Wea.

We then go early by tramway to Atemajac and walk thence to the head of the barranca, where we collect for sets. *Philibertia linearis*, Gray. 8497
Acletolepis rosea, HBK. 8499
Malvastrum 8495-
Wikstroemia cordifolia, Rob. and several species in 1895.

Ther.

SUNDAY 12

Wea.

In the forenoon I collect about fifty specimens in the swamps near the railroad station.

I take dinner with the Howlands and at 5:00 P.M. attend Mr. Howland's church. *Erythraea micrantha* ⁸⁴⁸² *gracilis* n. sp. in the plant collected in the swamps.

Ther.

MONDAY, MAY 13, 1901

Wea.

I go with Fortin to Zapopan by tramway and thence walk an hour to the hills near Rio Blanco, where on the banks of arroyos chiefly we collect four sets.

Eriogonum ovale, Gray. 8500

Viguiera Pringlei, Rob. & Greenh. 8496

and in 1500 a half dozen species.

2502 *Hieracium galapense*, Rob. & Greenh.

A fresh breeze from the north moderates the heat, so we do not suffer from that cause, but the dust is excessive.

Ther.

TUESDAY 14

Wea.

We go again as yesterday and make the circuit of the barrancas about Rio Blanco finishing as far as possible west of

Hieracium niveopapilionum, Fries. 8502

and securing a good number of species in 1895.

Less wind than yesterday, but the heat is severe.

I think I never saw so thirly a land as Mexico at present.

Ther. WEDNESDAY, MAY 15, 1901 Wea.

We, Fortin and I, go to the Savanra by train from San Andres St., but we find only one plant to collect there and that in 185's.

The heat proves exhausting. After taking a nap and getting dinner I collect with Fortin about *Opuntia*, finishing a set of *Nasturtium officinale*, ⁸⁴⁹⁴ R. Br.

and taking several species in 185's -

John and I take supper at Mr. Wright's -

Ther. THURSDAY 16 Wea.

In the early morning I go to Mr. Wright's school to guide him and his pupils to a beginning in botany.

Then we three board the Central train and leave Guadalajara about 10.25 a.m. Between La Barca and La Piedad we encounter a fine shower.

We pass Tlapacotal about 7.00 P.M.

Ther. FRIDAY, MAY 17, 1901 Wea.

We arrive in Mexico City at 6.30 A.M.

We work over plants.

I write to
Bert Estey,
Prof. Penhallow,
Dr. B. C. Robinson,
Mrs. Alice W. Barrett,
Otis W. Barrett.

A rainy night.

Ther. SATURDAY 18 Wea.

I alight from the "Gran Pacifico" train at Aslava with Fortin and collect about the station and on the mountain side a dozen species in 185's.

A persistent search for *Eupatorium lucidum*, Ort.

in this field, where I found a few specimens a few years ago, is vain.

We walk back to San Angel and come into town by electric train.

Several showers fall over the city.

Ther.

SUNDAY, MAY 19, 1901

Wea.

I find myself too tired today to do anything but take a nap in the forenoon and write in the afternoon.

a shower falls late in the day.

Ther.

MONDAY 20

Wea.

I call on Mr. Comfort in the offices of "El Gran Pacifico" in the matter of passes on his road, and he engages to attend to getting them for me.

In the afternoon I visit the Institute and receive orders from the Minister of Fomento for free tickets for myself on the Mexican and Inter-oceanic railroads.

Ther.

TUESDAY, MAY 21, 1901

Wea.

I go again with Fortin to Oplara and the mountain side above that station (after collecting along the Cent. R.R. near the city station four species in 15's before breakfast) and there secure for sets ³⁵⁰⁷
Cestrum Bourzeanum, Fernald
³⁵⁰⁸
not Rhamnus arctica

and a half dozen other species in 15's.

Shower falls there throughout the afternoon.

Ther.

WEDNESDAY 22

Wea.

In the morning I visit the offices of the Inter-oceanic R.R. and receive an order on its station agents for free tickets for myself. Then I take a nap, and after 4.00 P.M. receive a similar order in the office of the Mexican Ry.
At 7.30 P.M. we take train of the Mex. Cent. R.R. for a trip to Camara in Michoacan.

No rain seen today.

Ther.

THURSDAY, MAY 23, 1901

Wea.

At 4.25 A. M. we leave
our train at Orapuate, and
go on from there at 6.30 a.m.
stopping at Mucurua five hours,
starting away at 2.25 P. M.
and arriving at Zamora shortly
after 4.00 P. M.

Here we find a convenient
room in the meson San Francisco
after which John and I go out
along the watercourse and
collect for sets.

Salvia molina, Fernald n. sp. 8504

Here we find a valley green
with melon fields, cane fields, corn
fields and wheat fields.

Ther.

FRIDAY 24

Wea.

Varying Fortin I follow
the railroad north from
town for a mile or two, and
in the wide ditches, one to six
feet deep collect sets of 8484

Echinodorus rostratus, Engelm.

Sagittaria ⁸⁴⁸⁵ *bruggeri*, J. H. Smith.

Anoda pentachialis, Gray. 8505

The latter on banks of
streams, near by.

Ther.

SATURDAY, MAY 25, 1901

Wea.

Returning to the fields
of yesterday, we collect for
sets.

Panicum holciiforme, Steud. 8622
Aristida Pringlei, Fernald n. sp. 8509
Gonimphrena pillosa, Moq. 8483
Cassia lanigata, Willd. 8488

Ther.

SUNDAY 26

Wea.

We leave Zamora at
7.25 A. M. to return to
Mexico City, Mucurua at
2.10 P. M. and Orapuate
at 6.30 P. M.

At last the long night on the train with its snatches of sleep in uncomfortable positions in the car seats, comes to an end, and here awake at Guadalupe to go to find day returned. We arrive in Mexico City at 6:30 A.M.

A busy day here caring for our plants and putting them away.

I call on Mr. Comfort in the M.C. & P. office and on Sr. Ranzos at the Institut. Night showers.

Ther. TUESDAY 28 Wea.

Occupied as yesterday on plants brought from Samora.

I write to Dr. J. M. Rose and to Burb. W. Pease. And in the last hours of the day we go out along the railroad and collect a set of *Chenopodium murale*, ⁸⁴⁹⁶

Being tired and half sick, I decide not to start out on a trip tonight.

Tasting Fortin we go by Inter-oceanic train to Cuautla, arriving about 2:00 P.M.

Going out along the watercourses we collect for ants, — ⁸⁴⁹¹ *Cratichneumon luteipennis*, ⁸⁴⁹³ *Diochus unicolor*, Schlicht., and half a dozen species in 15:00 by dark.

A slight shower falls over Cuautla early in the night, and thunder and lightning prevail in the distance.

Ther. and THURSDAY 30 night Wea.

We are up by daybreak that Fortin may take our plants back to the city by earliest train leaving at 5:30 A.M.

I stay to explore more thoroughly about Cuautla and follow at 10:00 A.M. with half a dozen more plants in 15:00.

and arrive in Buena Vista Hotel about 6:00 P.M.

Ther.

FRIDAY, MAY 31, 1901

Wea.

I return (alone to save
expense) to Cuautla, and
in hedge close by the
town collect - sili of
Sida rhombifolia, L. 5490
Helianthus obovatus, Moq. 5487
Villanilla octandra, Hook. f. 5491

No rain.

Ther.

SATURDAY, JUNE 1

Wea.

Before taking train
at 10.55 a.m. to re-
turn to Mexico I collect
Cestrum dumetorum, Schlecht. 5491
Vigna luteola, Benth. - 5467

I arrive in Buena Vista
at 5.00 P. M. visit the
Institute, but find no passes-

Ther.

SUNDAY, JUNE 2, 1901

Wea.

I devote this day to
resting and doing a few jobs.
Take a good nap in the fore-
noon and another in the
afternoon.

Write to Dr. Rose again,
from whom I have received
no letter since I left him.

Ther.

MONDAY 3

Wea.

I take train of the Mex-
ican R.R. for Vera Cruz at
7.00 a.m. and arrive at my
destination at 6.30 P. M.

When we arrive among
the mountains and look
down upon Matlapa I am
surprised to see its fields still
brown and dry like the
tableland behind us. Small
indications of rains having
yet fallen about Orizaba
and Cordoba appear, and the
lowland plain is brown and
leafless over wide areas.

Ther.

TUESDAY, JUNE 4, 1901

Wea.

I find the heat of Vera Cruz nearly insupportable. Owing to this cause and annoyance from mosquitoes I have slept but three or four hours of the past night. I rise at 9.30 A.M. with a resolution to take the first train back to Mexico by the same way I have come and content myself with a reconnaissance of the vegetation along the line - a discouraging view!

Much of the way between Esperanza and Mexico our train encounters smart showers.

Ther.

WEDNESDAY 5

Wea.

This morning comes a letter from Dr. Ross dated May 17th which he sent first to Aguafresca. He says he is not likely to leave Washington before June 15th. So I write him to warn him not to come on before August.

In an unoccupied lot near San Cosme I collect *Lepidium* ⁸⁴⁵⁵ *granulare*, Rose n. 7. for sets, and later Fortin and I glean in similar places.

Ther.

THURSDAY, JUNE 6, 1901

Wea.

I make it my business of the day to get my pay for the plants brought for the Tacubaya Museum and to complete my set of a *Sisymbrium* - and I fail in both.

About 8.30 A.M. I call at the house of Mr. Ferrer-Perez on the other side of the city and am told that he is in bed with fever and will not rise till 11.30 A.M. Again at 1.00 P.M. I call and am told that he has gone out. Fortin and I tramp all the morning for plants.

Ther.

FRIDAY 7 rain.

Wea.

I go to Matampavilla with Fortin by 7.30 A.M. train and collect eight plants in 15-15 returning at 11.30 A.M.

Calling again at the house of Mr. Ferrer-Perez, I fail to find him at home.

I visit Dr. Ramirez at the Institute.

We finish a set of *Sisymbrium* ⁸⁴⁹² sp.

Rain late in the day.

Ther. SATURDAY, JUNE 8, 1901 Wea.

at 9.00 a.m. I call at the house of Mr. Ferrin again and find him at home. He kindly advances from his own funds the amount of my bill.

Next I call on the attorney of the Cuernavaca railroad, who tells me that he has known positively nothing about my pass.

It seems best that John should return home, and the sooner the better. So he takes the El Paso train at 7.30 P.M. But for fear of quarantine I would so. They to go. SUNDAY 9 Wea.

Finding that a *Physalis*, of which I brought in from Chalapañilla fifteen specimens the other day, is probably a newly described species of Mr. Fernald I return thither by first train and finish my complement. *Physalis puberula* Fernald 85-11

Dr. Rose writes that he will come in spite of drought and heat and I write and telegraph him that I will stay there.

Ther. MONDAY, JUNE 10, 1901 Wea.

I go with Fortin to Chalapañilla and in the swamps and ditches near by collect a grass. 8572
Tristramia beyersoides, Kunth - and five species in 15's.

Call on the Durans and Tranquilino comes home with us. Begs money of me and goes on a drunk - He is a lost man -

Ther. TUESDAY 11 Wea.

Dr. Ramirez having suggested my visiting Jiquila to look for *Rurieras* on the calcareous hills near that town I travel thither today by the Interoceanic R.R. arriving on a somewhat dilapidated train about 5.00 P.M.

I have time to find my way out to the southeast hill and begin making up a lot of 8472
Pithecolobium acallense, Kunth.

Ther. WEDNESDAY, JUNE 12, 1901 Wea.

I get out as early as possible and go back to the hill, where I work all the forenoon finishing my complement of the *Pithecolobium* and collecting in flower ⁸⁵¹⁰ *Bursaria longipes*, Rose.

I return to my hotel at noon to eat my dinner, after which I start out for the rice and cane fields. A cab drives me in, after two hours. Later I collect ⁸⁴⁷³ *Lymantria pentaphylla*, DC.

Ther. THURSDAY 13 Wea.

In the morning I gather a few specimens about the station before taking train about 8:00 A.M.

Arrive in Mexico at 4:00 P.M.

Ther. FRIDAY, JUNE 14, 1901 Wea.

I visit Tlalampante station to collect a set of ⁸⁵⁰⁸ *Polygala elongatus*, HBK. - getting back soon after noon.

Towards night we go out two miles along the Central track and collect a small pack of plants.

Ther. SATURDAY 15 Wea.

We go to Colava again by train and ascend into the mountains, where I succeed in finding the *Carpenterium* coming into flower. ⁸⁴⁷⁵ So, we get for sets *Carpenterium lucidum*, ORC. ⁸⁴⁶⁴ *Plantago mexicana*, Link. and some species in 1875.

Walking back to San Angel to take the electric, we reach home at 8:00 P.M.

no rain these days.

Ther. SUNDAY, JUNE 16, 1901 Wea.

Cephalanthus salicifolius, HBK. 5474

Believing that a half dozen specimens brought back from Jojutla belong to the above species, I return today to complete my complement, arriving in Jojutla about 5:00 P.M. and securing my specimens before dark.

Ther. MONDAY 17 Wea.

Before the return of the train I collect near the station. *Melampyrum gracile*, DC 5466 and some grass specimens.

Then I go on to Yantique arriving at 9:25 A.M. and take a room, No. 1, in Hotel Central once occupied by O. W. Barrett.

The rest of the day I work about two miles south along the railroad securing 8479. *Willardia parviflora*, Rose & Engelm. *Ampelocissus acapulcensis*, 8503 Planchon

Ther. TUESDAY, JUNE 18, 1901 Wea.

I stroll about the outskirts of the town, along the river, through shady lanes leading among orange and mango orchards, and up to the summit of the hill, which overlooks the pleasant valley, green with leafage and broad fields of sugar cane, all the morning but find little to collect.

At 9:25 A.M. I start back to the city with my collections and get into Hotel Reina Vista at 4:40 P.M. No rain here yet.

Ther. WEDNESDAY 19 Wea.

Busy today in our room drying and arranging plants. I write to:

Kate F. Hewitt,
A. C. Wright,
Henry S. Courad.

I return late in the day disappointed from a call at the Institute, because my friends there believe there is no rain in all the country and that little will come for a month or more, and because Sr. Ramirez says nothing about getting my papers renewed.

A day of rest in preparation for an all night's ride to Jalapa. We leave San Lazaro Station ticketed for Jalapa about 6.30 P.M.

We arrive in Jalapa at 6.37 A.M. day being dawned when we were between Las Vigas and Cruz Verde. We see fresh verdure.

After settling in the Interoceanic Hotel in room number 6, before occupied by Bert and me, I go out about the stations and secure lots of 5475 *Salvia corollata* Briquet. *Graphalium purpureum* ⁵⁴⁶⁵ *americanum* Nees.

Then I take a nap and later a run over the Brooks farm to find nothing for sale.

At 6.05 a.m. I leave Jalapa for a day's collecting on the seashore about Vera Cruz. All along the eighty miles of the railroad I see only a few trees and shrubs in flower. About the hills above and near the coast abundant verdure. The intervening belt dry and foliage scanty. Half way along rain begins, but holds up before we reach Vera Cruz at 11.15 a.m. and till about 3.30 P.M., by which time I have secured for sets:

Isa asperifolius, HBK. 5476
Sporobolus pungens, Kunth 5469
Eragrostis scandiflora ⁵⁵²⁰ Nash.
Euphorbia adenoptera ⁵⁴⁷⁷ Benth.
 I retreat by 4.00 P.M. to the station before rain beginning gently, but which is soon falling in torrents and continues all night. I get back to Jalapa at 11.00 P.M. 23 June.

To clean and put into folios the plants brought home last night in sack takes me till past noon - Showers and sunshine alternate. Send Fortin back to Mexico with a trunk of green plants to dry them there.

Ther.

MONDAY, JUNE 24, 1901

Wea.

Little rain over night and a bright morning.

I go down to Vera Cruz and bring back from the sands of the coast sets of
Tephrosia tenella, Gray 8519
Rhynchosia maura ⁸⁵¹² *sermoides*, DC.
Timbristylis ⁸⁴⁶⁰ *melanopara* DC.
Timbristylis ⁸⁵¹⁷

Physalis mollis, Nutt., var. *curvasea* ⁸⁴⁶⁰
 No rain, and the sunshine is hot, barely endurable with a fresh breeze off the Gulf - leaving Vera Cruz heated and wet with perspiration I contract-mural *gias* as we ascend into cooler air.

Ther.

TUESDAY 25

Wea.

But slight showers - It takes me till 1.30 P.M. to get my specimens into papers - I gathered them into rubber blanket and managed to keep them in good order.

Towards night I visit the Brooks farm for a lot of peaches, and on the way back collect for sets

Ascyrum hypericoides, L. 8515
Choranthus ⁸⁵¹⁶ *densiflorus*, Kunth

At 11.15 take train to return to Mexico to meet Dr. Rose.

Ther.

WEDNESDAY, JUNE 26, 1901

Wea.

Between daybreak and sunrise we stop fifteen minutes at Huehlay from which point the three snow mountains show clear of clouds.

I arrive in Buena Vista about 11.30 A.M.

Ther.

THURSDAY 27

Wea.

I go by Inter-oceanic train to Santa Barbara Station and near by collect sets of
Solanum fortuneanum ⁸⁵⁴¹ *Bunul*
Veronica officinalis, L. 8584

Encinta spithyminum ⁸⁵¹⁴ *Murr.*
Rumex pulcher, L. 8578
 getting back before 5.00 P.M.

Ther.

FRIDAY, JUNE 28, 1901

Wea.

In the forenoon I collect in ~~unoccupied~~ lots near Hotel Buena Vista. *Chenopodium glaucum* in rain and several species in W.B. Return in the afternoon and finish a set of *Atriplex* ³⁵²⁸ *minicuta*, H. & B.

A rainy evening -

Ther.

SATURDAY 29

Wea.

Informed by the newspaper of Dr. Rose's being on the Central train we go down to Tula to meet him and his assistant, Robert Hay.

Towards evening we all go sightseeing about the center of the city -

A cloudy day with showers in the afternoon -

Ther.

SUNDAY, JUNE 30, 1901

Wea.

Dr. Rose, Robert and I go by first train to Tlalampulilla and return on train about noon.

I collect for sets 3326 *Euphorbia thymifolia*, Benth.

Showers fall at midday -

Ther.

MONDAY, JULY 1

Wea.

We all visit Dr. Urbina and The National Museum in the forenoon and the Institute in the afternoon, where Dr. Rose delivers 700 shrubs of plants mounted and Dr. Ramirez sends a list of the railway we may wish to travel, in order to ask the Minister of Fomento to order for us free transportation -

A thunder shower passes before dark -

Ther.

TUESDAY, JULY 2, 1901

Wea.

We all four start for Dublin by the Pacheco train at 7:30 AM. There, besides several species in 15's, I secure for det-
Parthenocissus ⁸⁵³⁷ *quingulobius* Planch.
Cissus *tiliaceus*, HBK. 8536

A shower passes early in the afternoon, but we are pretty well sheltered by trees.

Ther.

WEDNESDAY 3

Wea.

It takes me till noon to scale and arrange some of the plants brought home last night in bulk.

Then I go to the post office with Dr. Rose to help him mail parcels of live plants.

Rain sets in about 2:00 P. M. So I take a nap towards night.

Ther.

THURSDAY, JULY 4, 1901

Wea.

Dr. Rose having invited me to make a trip with him through the State of Morelos to lead him to the most interesting localities for investigating the vegetation, we leave Mexico City at 8:10 A. M. by train of "El Gran Pacifico" and alight at Puerto de Ixtla about 4:00 P. M.

After taking a room (No. 5) in "Hotel Reforma" we go out south west from the village a little ways, and there I collect *Salvia procumbens*, DC. 5521

Ther.

FRIDAY 5

Wea.

We are out early to examine a strange tree not now in flower, *Jacaratia Mexicana*, DC., before taking the train at 6:10 A. M.

We alight at Yantepic at 9:00 A. M., take rooms in Hotel Central and soon get out along the railroad south of town, where I collect

Celtis platycaulis ⁸⁵³⁵ *Greenman* &
Amphipterygium abotinguens ⁸⁵³³ *Humb.* & *Rose*.

Thunder storms are seen on the mountains to the north early and at night one comes to Yantepic.

Ther.

SATURDAY, JULY 6, 1901

Wea.

I get out about 6.15 a.m.
to go back along the railroad
and collect sets of 2500
Hymenocallis crinitifolia ^{var. n. sp.}
Euphorbia pulcherrima ^{var. n. sp.}
before train time, 9.20 a.m.

At Olimba we meet rain.
And arrive in Buena Vista
Hotel before 5.00 P. M.

Ther.

SUNDAY 7

Wea.

I attend to some chores,
sleep in hour before
noon and then go out
along the railroad some
two miles to collect
Salvia verbenacea, L. 8.27

North wind prevents
much rain.

Ther.

MONDAY, JULY 8, 1901

Wea.

I arrange plants in the
morning, then go out three
miles along the railroad
till 2.30 P. M. and
collect a lot of plants in
15.5.

Later Dr. Rose and I
call at the Institute,
where Dr. Ramirez hands
us The Secretary of Fomento's
orders for free transportation
for me on The National,
The Interoceanic and The
Mexican Southern. Again
Nothing for Fortin.

Rain at night.

Ther.

TUESDAY 9

Wea.

Dr. Rose and I spend the
day running around among
the various railroad sta-
tions and general offices
to get our Government orders
changed for orders for
station agents.

Yesterday evening, when we called at the office of the M. C. & P. R. R. I found there in charge my old friend Frank Bondeston, who told me that he thought he could get passes from Mr. Hampson for me, if I would let him show my Mex. Cent. passes. This morning I call to learn the result and am told that Mr. Hampson had been offended by the Secretary's request.

I do odd jobs and rest.

With Dr. Woss and Robert I go out to Santa Fe and above there and secure for sets.

Ribes ⁸⁵²⁹ *rupestris*, Rose fr.
Salsafili ⁸⁵²² *diffusa*, Rob. & Woss.

The day is a downy one from early morning, but we do not get wet.

All four of us at 7:10 A.M. leave by National train for Tultenango and El Oro. We arrive at Tultenango station at 1:20 P.M. and in El Oro about 3:00 P.M. From El Oro we walk over the hills nearby to *Staphylinus* collecting by the roadside a full complement of *Oxalis* ⁸⁵²⁴ *Grahamiana* Benth.?

As yet there has been little rain in this region, so the vegetation is that of earliest spring and scanty at that.

We get out as early as we can see and walk down to Tultenango station, whence we descend into Tultenango Cañon, where I collect for sets. ⁸⁵³¹ *Mammillaria* *Pringlei*, Coulter.

I secure besides this a few species in 15's before the train comes along at 1:20 P.M. No rain encountered.

We arrive in Mexico City at nightfall, where much rain has fallen while we have been away.

Ther.

SUNDAY, JULY 14, 1901

Wea.

I attend to plants till
1.00 P.M., then take a
nap and after dinner
write to Kate P. Hewitt.

Ther.

MONDAY 15

Wea.

All four of ^{us} were plan-
ning to go trip to Pachma
this morning; but seeing
a norther coming on, we
change plans and go out
to the swamps of Tlalpam
where I secured for the
Oxalis albicans, HBK. 3523
Oxalis humulata, DC. 3525
Oxalis tetraphylla, Cav. 3532

By the time I have
secured these, rain begins,
and we get back before
4.00 P.M.

Ther.

TUESDAY, JULY 16, 1901

Wea.

Dr. Rose and I visit
Amecameca, but I collect
only fifteen specimens, *Oxalis*
tetraphylla, Cav.

The great mountains are
covered with rain clouds;
and we soon are compelled
to seek the shelter of the
town.

Ther.

WEDNESDAY 17

Wea.

Dr. Rose and I go out-
to San Angel and Tlalapan
where I secure lots of
Oxalis ~~*hirsuticollis*~~ ^{*hirsuticollis*} Rose n. sp.
OphioGLOSSUM Engelmannii, Trautl.
3533

A sunny day again -
We get home just as
rain begins about 6.00 P.M.

Ther.

THURSDAY, JULY 18, 1901

Wea.

All four of us take train of El Gran Pacifico for the mountain side at 8.15 A.M. and jump from it slowing by the quarry on the mountain top. Then collecting along the way, first beside the railroad, then on the lava fields, we make our way down to the electric cars in Chalpan and reach Buena Vista at dark, just before 7.00 P.M. Scarcely a shower seen today -

Ther.

FRIDAY 19

Wea.

Last evening when we reached Chalpan, I was nearly exhausted, and today I feel old and lame. But I keep about, drying and arranging plants and with Dr. Rose calling on Dr. Urbina in the National Museum -

Journal to Frank stops.

Ther.

SATURDAY, JULY 20, 1901

Wea.

All four of us start for Paclucta at 7.30 A.M., arriving there at 11.10 A.M. and putting up in Hotel Greenfell -

Immediately we start up the Clinco road, eat our dinner by an alpine brook and keep on to the summit crags, where I collect a set of *Patentilla Ryboviciana*, ³⁵⁴⁷ *Rosend*. Besides this we secure several species in 15's, and get back to our hotel just before dark. No rain falls -

Ther.

SUNDAY 21

Wea.

Wising at 5.10 A.M., we go right back up the mountain, and about the summit collect a half dozen species in 15's.

We descend to the town in time to take the train at 2.30 P.M. to return to Mexico City where we arrive at 6.30 P.M. as a shower is falling.

I count it a remarkable thing to have made a trip to the Paclucta mountains without encountering rain -

8550 *Hieracium mexicanum*?

Ther.

FRIDAY, JULY 26, 1901

Wea.

Last night a tempest drove rain into our cabin of heavy logs, but we slept pretty well. My rheumatism seems to have left me here.

At 6.00 A.M. in the cold and wet we start back up the mountain side and collect about the limit of trees till after noon.

⁸⁵³³ *Senecio brizabensis*, Sch. Bip.
⁸⁵³⁷ *Cerastium vitale*, Schleich.
⁸⁵⁴⁸ *Ranunculus sonianus*, Britton.
⁸⁵⁵¹ *Draba myosotidoides*, Hemsley.
⁸⁵⁴⁶ *Oreomyza andicola*, Endl.

I secure them for det. and *Lupinus submontanus*, Rose. on the way.

Ther. SATURDAY 27 back to Wea.

I get out early, and going a little to the west of the town, collect for det.

⁸⁵⁴² *Lupinus campestris*, Schleich.
⁸⁵⁴³ *Lupinus leptophyllus*, Schleich.
⁸⁵⁴⁵ *Castilleja Schaffneri*, Hemsley before midday.

At 12.30 P.M. we leave Chabelicounta to return to Mexico City.

On the way back we encounter thunder showers and, we find that much rain has fallen in the Valley of Mexico during our absence.

Ther.

SUNDAY, JULY 28, 1901

Wea.

The care of our plants - the arranging, clearing and drying - keeps us closely occupied today.

We have some good sunshine about midday, then showers in all quarters.

Ther.

MONDAY 29

Wea.

I take the Ora Cruz train at 7.00 A.M., get off at San Cristobal, the first station, collect a set of

⁸⁵³⁴ *Cleome sonchifolia*, Gray. and return to Mexico by Puebla train arriving at 9.30 A.M.

The rest of the day I work over our plants. The sun shines out but a short time in the afternoon to enable us to change out half of them. Showers in the forenoon and afternoon.

Ther.

TUESDAY, JULY 30, 1901

Wea.

In the peñon opposite
Vizapam between 11.00 A.M.
and 2.00 P.M. I gather more
material of *Oplhoglossum*
Engelmanni Thell. and
take a set of
Portulaca pilosa, L., var. ⁸⁵⁷⁶

The sun scarcely shines
out in all the day, which
is cloudy and misty -

Ther.

WEDNESDAY 31

Wea.

Dr. Rose and I take Inter-
oceanic train for Puebla
at 7.15 A.M. starting on
a trip to Tehuacan.

We arrive in Puebla at
1.10 P.M. and go on by
the Mex. Southern R.R.
at 2.00 P.M. reaching
Tehuacan at 7.10 P.M.
We take a room in
"Hotel Mexico" No. 17.

Ther.

THURSDAY, AUG. 1, 1901

Wea.

We get out early and
collect diligently on
the Tufa Cliffs two
miles east of town.
Centarea latiflora, DC. ⁸⁵⁷⁷
Pistacia mexicana, HBK. ⁸⁵⁷⁸
Berberis gracilipes, Rob. n. sp. ⁸⁵⁷⁹

Besides several plants
in partial silt and
15-5.

The sun shines out
most of the day; but
rain begins by night-
fall.

Ther.

FRIDAY 2

Wea.

While Dr. Rose goes to
Cerro Colorado, I return
to the Cliffs, and get sets of
Hectia tenuicauda, Rob. n. sp. ⁸⁵⁸⁰
Cissampelos tuberosa, DC. ⁸⁵⁸¹
Aristolida purpurea, HBK. var. ⁸⁵⁸²
Centarea latiflora, DC.

After I get back to a late
dinner, we take train at
3.50 P.M. to return to
Puebla. Arrived there at
7.45 P.M. we take a room
in Hotel Venetia, No. 3.

Ther. SATURDAY, AUG. 3, 1901 Wea.

We get out about 2.20 A. M. to take train of the Inter-oceanic R.R. at 3.00 A.M. Our train runs slow and finally stops at El Cantillero on account of a wreck ahead. We arrive in Mexico at 1.30 P.M.

I am busy over plants, etc., till 6.00 P.M. then go to bed utterly exhausted.

Some of the specimens have dropped their leaves from heating in bundles without drying, and I throw them away.

Ther. SUNDAY 4 Wea.

Busy doing chores and working over plants all day.

Ther. MONDAY, AUG. 5, 1901 Wea.

I return again but alone to Tehuacan collecting at stations, as my train leaves here, a set of 8558 *Solanum lanceolatum* Cav.

I take a room (No. 9) in the Hotel San Francisco, where I lived on my two visits here in 1897.

The weather is cool and clear, no showers at all being perceived.

Ther. TUESDAY 6 Wea.

On the tufa plain west of town I collect till near noon, getting for sets 8577 *Anthurium leptophyllum* Baker and fifteen specimens of several species.

After drying the driers (this time brought to save loss of specimens) and packing my plants among them, I return to the plain and hill for *Atriplex muricata*, D. & W. 85-77 85-80 *Echinomone compacta* Roux 85-86 *Salvia gratifolia* Small n. sp.

Ther. WEDNESDAY, AUG. 7, 1901 Wea.

On the plain again I get
Stemmatococcus ⁸⁵⁻⁷³ *pyrenacanthus* ⁸⁵⁻⁷³ *West*
Polygala alba ⁸⁵⁻⁷³ *nut* ⁸⁵⁻⁷³ *thru*
them on the lava ⁸⁵⁻⁷³ *thru*
Verbena ⁸⁵⁻⁶¹ *abcondita*, *Walt.*
Montanoa ⁸⁵⁻⁵⁵ *telusacana*, *Rob. n. sp.*
Salvia telusacana, *Fernald n. sp.*

I get back to my room
at 4.00 P.M., give my plants
the benefit of my dress,
eat my dinner, pack up
things, and board at 8.00 P.M.
the train from Oaxaca to
Puebla running four hours
later. At Puebla by 11.30 P.M.
I get out to await in the
depot the train due 3.00 A.M.

Ther. THURSDAY 8 Wea.

Before train time I am
told that the train from
Jalapa will not arrive till
8.00 A.M. on account of a
wreck at Las Vigas. I wait
on. When day returns, I learn
that I must wait till
10.30 A.M. Before that time
comes around, I read on the
bulletin board 11.55 A.M.
Our train starts at 12.30
P.M. and reaches Mexico
about 6.20 P.M.

But - little rain -

Ther. FRIDAY, AUG. 9, 1901 Wea.

Busy in our hotel drying
plants.

Only light showers.

Ther. SATURDAY 10 Wea.

I stay in my hotel and
dry off plants and put
them away.

Dr. Rose and Forting
over to Lerma to get mats,
etc.

Ther.

SUNDAY, AUG. 11, 1901

Wea.

By this time I find myself quite exhausted, so I am glad to take a Sunday rest.

Ther.

MONDAY 12

Wea.

I return to Chalchicomula with Fortin only, Dr. Rose planning to visit Jalapa this week with Robert.

Arrived in Chalchicomula soon after noon, we settle in the "Hotel Central," room 10, and after dinner climb the hill above town to collect a set of ⁸⁵⁻⁶⁵

Atropalus Orizaba, Seaton. Showers pass and we seek shelter in a little cave. At night heavy rain falls. ⁸⁵⁻⁶⁴ *Villanova achillaeoides*, ⁸⁵⁻⁶⁴ *Seaton*.

Ther.

TUESDAY, AUG. 13, 1901

Wea.

Before breakfast on a hill west of town I gather a set of ⁸⁵⁻⁶⁴ *Astilba chrysanthemoides*, Gray.

Next at 9.00 A.M. call on the Jefe Político, the chief magistrate of the district and obtain from him a letter recommending me to all authorities and proprietors.

Then till showers begin at noon and later between showers collect above town ⁸⁵⁻⁶² *Atropalus Seatonii*, Jones.

⁸⁵⁻⁶³ *Brickellia veronicaefolia* Gray. ⁸⁵⁻⁶³ *Pentstemon isophyllus* Rob. & Gray.

Ther.

WEDNESDAY 14

Wea.

I set out at 6.00 A.M. on foot and alone to climb Mt. Orizaba going up through the Hacienda of Jalapina. Much of this was through the upper forest composed of *Ades religiosa* I find no trail.

Reach the sandy plains between the Cerro Colorado and Cerro Negro, and turn back at 12.30 P.M. with as many plants as I can well carry. ⁸⁵⁻⁶² *Croastium vulcanicum*, Schlegel.

⁸⁵⁻⁶⁰ *Castilleja lithospermoides*, A. N. S. ⁸⁵⁻⁶⁶ *Sisyrinchium quadrangulatum*, Klatt. ⁸⁵⁻⁶⁸ *Festuca nephastophila*, Nees.

I get back to my hotel at 6.00 P.M. No rain has fallen, but I had sunshine on the summit.

Ther. THURSDAY, AUG. 15, 1901 Wea.

To clean my plants and
put them into folios boxes
till 10.00 A.M. Then I hurry
out to the hill west of town
for specimens of

⁸⁵⁶⁷
Salvia thymoides, Benth -
in order to be ready to start
back to Mexico City at 12.30
P.M. with Fortino now suffering
from malarial fever.

Looking back on the great
mountain, as we leave, we see
it covered with black rain clouds
pouring down torrents, and heavy
rain falls in Mexico after we arrive.

Ther. FRIDAY 16 Wea.

Today our plants require
our whole attention. Warm
sunshine favors our drying
them; but rain begins toward
night.

I write to Kate P. Hewitt.

Ther. SATURDAY, AUG. 17, 1901 Wea.

After putting away lots of
plants, I go out north along the
railroad and collect a set of
Salicaria tuberosum, L.

Ther. SUNDAY 18 Wea.

I rest and write
letters to
B. W. Estey
F. F. Estey, et al.

Ther.

MONDAY, AUG. 19, 1901

Wea.

I go with Fortin to Guadalupe and climb all day over the three first hills lying north of that town from Cerro de Guadalupe to Cerro de Chichime, and bring in seven plants in 15-16.

Not many plants are yet in flower on these hills. Rain begins before night. Dr. Rose and Robert Hay arrive from Jalapa in the morning and the doctor leaves for Aguas Calientes at 7.30 P.M.

Ther.

TUESDAY 20

Wea.

After attending to plants and taking a nap I go out beside the railroad track north of the city a bit of ⁸⁵⁹² *Panicum crus-galli*, L., var. *muticum*, Torr.

Then towards the close of day I call at the Institute.

Ther.

WEDNESDAY, AUG. 21, 1901

Wea.

At 7.15 A.M. I take train on the Interoceanic R.R. to make another trip to Tehuacan. In Puebla on time I change to the Mexican Southern R.R. and arrive in Tehuacan shortly after 7.10 P.M., where I occupy the room occupied by myself and assistant so long in 1897, No. 7.

Ther.

THURSDAY 22

Wea.

I return by train to the second station west of Tehuacan, Tepanco, and on a hill near by the station a hill of soft-limestone, collect throughout the day. *Salvia canbicans*, Muhl. 8590
Mortonia diffusa, ⁸⁵⁹¹ Rose, n. sp.
Aristida 8592

Stevia collobes, Greene 8593 n. sp.
Saxonanthus Pringlei, Greene 8594
So many for Pitt and even in 15-16.

No rain falls within view, and a fine breeze gets up.

Ther.

FRIDAY, AUG. 23, 1901

Wea.

By morning train I go back again to Carnegie the first station out of Valparaíso, to get a set of *Oxyaphis viscosus*, I'Her. seen there, as I passed.

Returning to my room at 9:45 a.m. I work till past noon trying to dry my plants by a clouded sun. Then on the west-bluffs collect - sets of *Salvia* ⁸³⁹³ *pinnosa*, *Junonia* ⁸³⁹⁴ *n. s. n.*, *Solanum* ⁸³⁹⁵ *oblongifolium* Schlecht., *Persea* ⁸³⁹⁶ *indica*, Rob. & Grum. No rain falls near.

Ther.

SATURDAY 24

Wea.

I take train at 6.10 a.m. to return to Mexico, changing a couple of hours in Puebla and arriving in Mexico about 7.40 P.M. a little behind time.

I find that Dr. Rose with Robert has gone on a trip of a few days to Guadalajara.

Ther.

SUNDAY, AUG. 25, 1901

Wea.

Busy in Hotel Buena Vista drying and arranging plants and doing chores. Little sunshine. A light shower comes at night.

Ther.

MONDAY 26

Wea.

Occupied the same as yesterday but favored with more sunshine for drying plants. A thunder shower fell at 4.30 P.M.

Ther.

TUESDAY, AUG. 27, 1901

Wea.

Having seen a species of *Verbesina* beside the rail-road near the station of Contadero, ninety miles out on the way to Puebla by the Interoceanic I return there today and during the four hours which I have there between trains collect on a plot scarcely more than ten rods broad site of *Verbesina pterocaula* ⁸⁵⁹³ &c. *Verbesina hypomela*, ⁸⁵⁸⁹ R. & G. *Gracilaria Pringlei*, ⁸⁶⁰¹ Rose n. sp. *Elipa carulea*, ⁸⁵⁹⁵ Presl.

Ther.

WEDNESDAY 28

Wea.

Dr. Rose and Robert return from Guadalajara this morning and begin packing to return home. We dry plants.

Dr. Rose and I call at the Institute.

Ther.

THURSDAY, AUG. 29, 1901

Wea.

After putting away some plants, I attend on Dr. Rose's packing up and starting for home. He and Robert may take the Central train at 7.30 P. M.

Ther.

FRIDAY 30

Wea.

I visit Contadero again and secure for sets ⁸⁶⁰⁶ *Phaseolus obtusatus*, Schlecht.?, ⁸⁶⁰³ *Colegania affinis*, Michx., ⁸⁵⁹⁶ *Oryzopsis americana*, Richer., *Hibiscus Porteri*, Nash., 8597 var. *anomalus*, Shear. Get back to Mexico late, at 8.10 P. M.

Ther.

SATURDAY, AUG. 31, 1901

Wea.

It takes most of the day to put into folios the specimens brought in yesterday in bulk.

Ther.

SUNDAY, SEPT. 1

Wea.

I put away plants, write to B. W. Cady and rest.

Ther.

MONDAY, SEPT. 2, 1901

Wea.

We get down from the Nacional train at La Cumbre a little to the east of Salazar station at 9.40 A. M. and walk back by the old stage road to take tramway car in Santa Fe at 6.10 P. M., collecting on the way ⁸⁶⁰⁸ *Salvia cyanea* Benth.

⁸⁶⁰⁷ *Mitriularia lobata* Bernald n. sp. for pits and a half dozen choice mountain plants in 1855 - and we did not get wet, though rain fell near us.

Ther.

TUESDAY 3

Wea.

Doing chores and rest.
I write to
T. C. Wages, Esq.
Z. H. Horsford,
Oswald Wolfel,
W. J. Benson.

8609 *Melampodium viricentum* Lag.
var. *exappendiculatum*, Rob.
Ther. WEDNESDAY, SEPT. 4, 1901 Wea.

We set out to go to the
Sierrita Vieja by way of
Santa Fe, but when we
leave the horse car and
begin to climb the ridge
above that town we find
our legs still lame from
the nine hours tramp of
two days ago. So we turn
aside to the edge of the
east-barranca and work
there all day collecting
*Verbena capitata*⁸⁶⁰⁵, *Nes.*
*Colofonia biflora*⁸⁶¹¹, *Nichols.*
for sets, and nine species
in 15's. No rain near.

Ther. THURSDAY 5 Wea.

I go back to Santa Fe
and pass above the town
some distance examining
the verges of both barrancas
and getting for sets
Melampodium viricentum, Lag.
var. *exappendiculatum*, Rob.
and a half dozen or more
species in 15's.

another still warmer
day with light showers
only on the distant
mountains.

Ther. FRIDAY, SEPT. 6, 1901 Wea.

I put away plants, take
a long nap and at the
end of the afternoon call
at the Institute to compare
a few plants from Santa Fe
and finally visit Dr.
Urbina in the National
Museum.

No rain falls near
the city.

Ther. SATURDAY 7 Wea.

We alight from the M. C.
+ P. Train at Esplava about
9.30 A. M. and collect
in the woods and lava-
fields not far distant.
Till 4.00 P. M. when we
set out to walk back to
San Angel to take the
electrics for town. It was
*Melampodium*⁸⁶¹⁰ *arvense*, Rob.
which we go for today and
secure for sets.
And besides this fifteen
species in 15's.
A shower passes near us.

Ther. SUNDAY, SEPT. 8, 1901 Wea.

It takes all the forenoon to put into folios the plants brought in last evening in bulk; then I take a nap of an hour, and afterwards write to Kate P. Hewitt and Geo. E. Prindle.

Rain only in the distance

Ther. MONDAY 9 Wea.

I arrive in Puebla at 1.10 P. M., fall in with Rev. J. W. Grimes, an old friend, who offers me the hospitality of his room.

Go out to Amozoc. The second station out on the Mexican Southern R. R., arriving there at 2.12 P. M. Before dark I get sets of *Salvia polytachya* 8615 var. *cadia*, Benign. *Arisaema dissecta*, 8613 *Pectis latifolia*, Schz. Wip. I get back to Puebla 7.50 p.

Ther. TUESDAY, SEPT. 10, 1901 Wea.

Return to Amozoc by morning train leaving Puebla at 6.10 a. m.

I climb to the summit of the hill near the town but find only a scanty vegetation, and stop to take but five species in 15's. Return to Puebla by midday and to Mexico about 5.00 P. M.

Ther. WEDNESDAY 11 Wea.

I attend to plants and rest.

A thunder shower comes at 5.00 P. M.

Ther.

THURSDAY, SEPT. 12, 1901

Wes.

I set out at 7.10 a.m. on a second trip to El Oro and arrive there about 2.00 P.M.

After finding a room (No. 19) in the new "Hotel Americano" I climb the hillside above the town. But by the time I have snatched up fifteen specimens of a *Stinkelersii* rain approaches and I retreat to my room. There I arrange my specimens, and go to bed early.

Ther.

FRIDAY 13

Wes.

Out by 6.00 A.M. in the mud and wet I clamber extensively over the hill above the town but find little to gather. On this hill as all over this region the original forest has been cut away and much of the land has been tilled on the hillside and summit. One spot about the cascade yields me sets of

8612

Mussaenda arguta L. & R. n. sp.
8614
Salvia helianthifolia Nutt.

Ther.

SATURDAY, SEPT. 14, 1901

Wes.

Yesterday though the sky was cloudy and showers passed in view I was not molested by rain. But it rained all night and till 7.00 a.m. this morning.

Before time for the train to leave at 12.15 P.M. I gather several species in 15th S. more about Tullimayo station while waiting for the south bound train, and arrive in Mexico at 7.30 P.M. a little late.

Ther.

SUNDAY 15

Wes.

I attend to plants and rest.

Write to Kate P. Hewitt
Rain has returned in large amounts.

Ther.

MONDAY, SEPT. 16, 1901

Wea.

By Mex. Cent. train
leaving at 8.15 a.m.
I ride to El Salto, ar-
riving at 10.00 a.m.

On a limestone hill
about a mile north
east of the station
I collect sets of ⁸⁶²¹
Brickellia monocephalala (Rob.)
⁸⁶²⁰
Sedum calcaratum (Roxb.) n.s.
and a few species in
18-5.

By 3.00 P.M. a thunder
shower arrives, and I
get wet - getting back to
the station.

Ther.

TUESDAY 17

Wea.

When leaving the
field yesterday, driven
off too early by the rain,
I came upon 8618

Scanea tuberosa, C. & R.
and today I return
there to secure specimens
enough for my sets.

I take some other plants
in 18-5.

No rain interferes with
my work, but comes at night.
But owing to two derailed
freight cars near Amelme-
loca I don't get home till 4.30 a.m.

Ther.

WEDNESDAY, SEPT. 18, 1901

Wea.

Arriving in Ruina
Vista Hotel at 4.30 a.m.
I go to bed and devote
the most of the day to
rest. It is a dark
misty day.

Ther.

THURSDAY 19

Wea.

Still cloudy weather
with mist hanging
over the mountain.
I begin to make ready
for the home journey.

Ther.

FRIDAY, SEPT. 20, 1901

Wea.

Still another darrow
and cool day with
mists enveloping the
mountains.

In the morning we
hired a pack animal
boy. Then from
10.00 A. M. till
3.30 P. M. I collect
Panicum holciforme, Steud.

and six other grasses
in 15° beside the
railroad two or
three miles north of
the city.

Ther.

SATURDAY 21

Wea.

I arrive at El Salto
Station at 10.15 A. M.
and walk down to
Dublan by 4.15 P. M.
collecting a dozen species
in 15° by the way -
a bright, warm day.

Ther.

SUNDAY, SEPT. 22, 1901

Wea.

I collect about Dublan
up and down the rail-
road securing fruit of
Colaptes ⁸⁶¹⁹ *corpi*, Rose m.,
and half a dozen species
in 15°.

Little rain there but
much about Mexico
City.

Ther.

MONDAY 23

Wea.

Once more I return
to Dublan, where I collect
for 24. ⁸⁶¹⁷
Ligustrum multirac-
iosum, Watson, and
Sporobolus Wrightii, Munro. ⁸⁶¹⁶
Beside several species
in 15° as usual.

A light shower passes
while I am in the
field and a heavier
one comes on as I
board the returning
train.

Ther.

TUESDAY, SEPT. 24, 1901

Wea.

I go out to Santa Fe
and collect a few
specimens. Find myself
utterly fagged out and
take to my bed
early in the evening.

Ther.

THURSDAY, SEPT. 26, 1901

Wea.

We complete prepar-
ations for the journey
home, and at 7.30 P.M.
start for El Paso, Martin
and I.

Ther.

WEDNESDAY 25

Wea.

I go to the lava field
near Chalpam and
collect seven plants
in 15' S. Return when
rain begins at 1.00 P.M.

Ther.

FRIDAY 27

Wea.

Morning finds our train
near Leon, nightfall below
Camacho.

Throughout all the day
the corn, mostly short
and scattering, gives evidence
of the severity and extent
of the drought of this year.
Everywhere the vegetation
is more or less stunted and
poor. I judge I had met
with disappointment had
I moved to San Luis Potosi
to collect in those regions.

Ther. SATURDAY, SEPT. 28, 1901 Wed.

Our train meets the daylight between Jimenez and Ortiz and arrives in Ciudad Juarez about dark. All along this route the vegetation is not only scanty but is even now drying up. There is little temptation to stop in North Mexico to collect.

We take a room in my old hotel in El Paso to rest and wait till Monday to do business.

Ther. SUNDAY 29 Wed.

I find myself too ill from a cold and too weary to go into the fields. We rest and make some preparations for our several journeys.

Ther. MONDAY, SEPT. 30, 1901 Wed.

I see Fortune off on the train to return to Mexico between 10.00 and 11.00 A.M. and get my collection shipped by noon. Leave El Paso at 9.15 P.M. on A.T. & S.F. train.

Ther. TUESDAY, OCT. 1 Wed.

Our train reaches Albuquerque at 7.10 A.M. and darkness overtakes us at Rincon.

I notice that the vegetation in New Mexico is already mostly immature and drying up.

Ther.

WEDNESDAY, OCT. 2, 1901

Wea.

Day. Lawns, as we pass Kinsley on the open plains of Kansas, here, too, the grass is brown and dry.

But in the afternoon Eastern Kansas is seen to be still green and flowing, goldenrods and asters being conspicuous.

When dark comes on we are running east of Kansas City.

A sunny day -

Ther.

THURSDAY 3

Wea.

We are at Stratton, Illinois, when daylight returns. The morning is cool, a light frost showing. arrive in Chicago about 8.00 A.M.

I two or three hours most pleasantly with Dr. C. F. Millsap in the Field Columbian Museum.

Ther.

FRIDAY, OCT. 4, 1901

Wea.

Morning finds our train at Lenoir, Ontario. A heavy white frost is on the ground and the day proves bright.

I pass through Montreal at 7.00 P.M., Burlington at 10.30 P.M., am carried past Charlotte to Vergennes, where I wait two hours, and then am brought back to Charlotte by 2.00 A.M. on a freight train with passenger car attached. Finally I walk home arriving at 4.00 A.M.

Ther.

SATURDAY 5

Wea.

Getting baggage from the station and unpacking it.

I had \$2.90 in my pocket when I reached home.

Ther.

SUNDAY, OCT. 6, 1901

Wea.

I visit my brothers
and Cousin Katie.

Ther.

MONDAY 7

Wea.

I write to Prof. Fane-
hallow of Mc Gill
University and to Prof.
Greene of Washington
sending a set of Ph. Mex.
1900 to the latter.

Ther.

TUESDAY, OCT. 8, 1901

Wea.

I write letters and rest.

Ther.

WEDNESDAY 9

Wea.

I walk to Jarrishburg
and visit my friends the
Chas and Macomber.

Ther.

THURSDAY, OCT. 10, 1901

Wea.

I return from
Jerrisburg, after visiting
the Atkins.

Ther.

SATURDAY, OCT. 12, 1901

Wea.

Annotating Hensley's Rot-
ary of Central America by
my list of 1900.

Ther.

FRIDAY 11

Wea.

Filling out plant names
in my journal of 1900.

Ther.

SUNDAY 13

Wea.

Willo.

Mr. & Mrs. Estey return
home.

Ther. MONDAY, OCT. 14, 1901 Wea.

Sitto.

Ther. WEDNESDAY, OCT. 16, 1901 Wea.

Sitto.

Ther. TUESDAY 15 Wea.

Annotating Hermsley by
the Gray Herbarium
Contributions of Robinson
and Fernald

Ther. THURSDAY 17 Wea.

I finish my task by
annotations from the
contributions of Grunman.

Ther.

FRIDAY, OCT. 18, 1901

Wea.

The landscape is white with snow this morning which melts away before noon.

I prepare and box a lot of plants for the Hill University, etc. of 1894, 1895 and 1896.

Ther.

SATURDAY 19

Wea.

I go to the depot taking the box of plants for the Hill and shipping it, and bringing home a box of plants from Otto Cronhark of Rosum, Germany.

Ther.

SUNDAY, OCT. 20, 1901

Wea.

Towards night I walk to Moncton Borough to visit Jany Carpenter.

Ther.

MONDAY 21

Wea.

In the forenoon return from Moncton.

Ther.

TUESDAY, OCT. 22, 1901

Wea.

I take train to Bristol
on his way to Lincoln
duck hunting, take dinner
at Mr. Rand's and call
on Mr. & Mrs. Bartlett on
my way home.

Ther.

THURSDAY, OCT. 24, 1901

Wea.

I write to
Oswald Weigel, et al.
go to the Post Office
and take dinner at
Bygon Ends.

Ther.

WEDNESDAY 23

Wea.

I write letters and go
to the post-office.

Ther.

FRIDAY 25

Wea.

I call at Mr. Leonard's
receive from the post office
a remittance of \$192.78 from
Oswald Weigel and write to
acknowledge it.

Ther. SATURDAY, OCT. 26, 1901 Wea.

I do some jobs in the
forenoon in the afternoon
call at Kate Kiehl's

Ther. SUNDAY 27 Wea.

I visit my brother's
and Cousin Kate's.

Ther. MONDAY, OCT. 28, 1901 Wea.

Franc and his family
get home from Lincoln
and his fruitless deer hunt.

Ther. TUESDAY 29 Wea.

Ther. WEDNESDAY, OCT. 30, 1901 Wea.

Evings to then depart
after my boxes arrived
from Mexico, call at
Wood Horseford and at
other places.

Ther. FRIDAY, NOV. 1, 1901 Wea.

Franc and I plant a
half bushel of nuts of
Juglans nigra in the West
woods, prune grape vines
finish gathering apples
and do other jobs.

Ther. THURSDAY 31 Wea.

We set up our mail
box over the hill at the
turn of the road.

Ther. SATURDAY 2 Wea.

I begin making up sets
of my *Planta Americana*,
1901, for the Harvard and
National Herbaria.

Ther.

SUNDAY, NOV. 3, 1901

Wea.

Resides doing a little
on the task begun yester-
day I call at my brother's
and Cousin Kate's.

Ther.

TUESDAY, NOV. 5, 1901

Wea.

I keep at my task.

Ther.

MONDAY 4

Wea.

I continue work on
my task.
The Knowbridges call.

Ther.

WEDNESDAY 6

Wea.

Sixes. I did this.

Ther.

THURSDAY, NOV. 7, 1901

Wea.

I finish my task
and pack up my specimens.

Ther.

SATURDAY, NOV. 9, 1901

Wea.

I begin making out
a list of my Pl. Mex.
of 1888 to replace the
manuscript copy lost by
loaning it to Rev. Peter Golden
Smith in Guadalajara.

And begin ticketing my
collection of 1886.

Ther.

FRIDAY 8

Wea.

I visit Middlebury.
inspect the new Warner
Science Hall, take dinner
with my old friends
Mr. & Mrs. Charles
Matthews and return
on the mail, Frank
meeting me at the depot.

Ther.

SUNDAY 10

Wea.

I advance my list a
little and rest.

Ther.

MONDAY, NOV. 11, 1901

Wea.

I walk to the depot and take train to Burlington where I call on Prof. G. A. Waugh and L. R. Jones taking dinner with the latter. Then I call on the Williams and Herb Baldwin and missing the train get a ride home on one of my brother's teams, a snow storm beginning soon after we leave Burlington.

Ther.

TUESDAY 12

Wea.

I finish a first copy of my list of 1888.

A rainy day -

Ther.

WEDNESDAY, NOV. 13, 1901

Wea.

A wintry day, a flurry of snow coming from the north.

I write a copy of my list of 1888 and one of my list of 1886 to send to Dr. Ramirez of the Mexican Institute.

Ther.

THURSDAY 14

Wea.

I write a copy of my list of 1888 to send to the Field Columbian Museum, Chicago.

Ther.

FRIDAY, NOV. 15, 1901 //

Wea.

I study some of my 15's
and prepare ticket copy for
them -

Ther.

SUNDAY, NOV. 17, 1901

Wea.

Resting and doing a little
work on my 15's.

Ther.

SATURDAY 16

Wea.

I visit Mrs. Brainerd in
Middlebury -

Ther.

MONDAY 18 //

Wea.

Frank and I drive to
Burlington and take dinner
at Prof. Jones' after looking
over the college buildings.

Ther.

TUESDAY, NOV. 19, 1901

Wea.

I return to work on 15's.
and Bridges put up a parcel
of plants for Mr. Smith &
Williams.

Ther.

WEDNESDAY 20

Wea.

Working still on my
plants collected in 15's to
determine them and make
copy for tickets.

Ther.

THURSDAY, NOV. 21, 1901

Wea.

The same -

Ther.

FRIDAY 22

Wea.

I go to Burlington by
train to buy an overcoat.

Ther. SATURDAY, NOV. 23, 1901 Wea.

I finish studying and
ticketing my 150.

Ther. MONDAY, NOV. 25, 1901 Wea.

I begin putting up a collection
of grasses - five specimens of
each species - to supply to
Prof. J. Lanson Scribner.

Ther. SUNDAY 24 Wea.

I rest, take dinner at
my brother's and call at
Cousin George's.

Ther. TUESDAY 26 Wea.

I keep at the press for
Prof. Scribner.

Ther. WEDNESDAY, NOV. 27, 1901 Wea.

I finish and pack the
masses -

And begin to prepare for
poisoning and mounting into
my herbarium by cleaning
and selecting the specimens
and trimming most of the
tickets the plants received
not long ago from Otto Leon-
hardt of Glessen, Saxony,
Germany. I finish only one
bundle, largely plants from
Laplant, Persia, Turkey, etc.

Ther. THURSDAY 28 Wea.

I put up a package of 40
Mexican Euphorbiae to
send to Henry Stue Budd of
Los Angeles, California -

Ther. FRIDAY, NOV. 29, 1901 Wea.

I inspect and prepare for
poisoning and mounting two
bundles of plants from Hermann
Leonhardt.

Ther. SATURDAY 30 Wea.

I prepare a bundle of
Leonhardt plants -

Then lay out for Cambridge
and Washington herbaria
a lot of undetermined plants
in 15's and enter them in
my note book.

Ther.

SUNDAY, DEC. 1, 1901

Wea.

I rest and work over
miscellaneous Mexican
plants of my last collection

Ther.

TUESDAY, DEC. 3, 1901

Wea.

And still another.

Ther.

MONDAY 2

Wea.

I do the same another
day.

Ther.

WEDNESDAY 4

Wea.

I finish putting up my
miscellaneous plants of 1901,
to send to Cambridge and
Washington for name.

Ther. THURSDAY, DEC. 5, 1901 Wea.

I begin making up a selection of plants for the Brandegee Herbarium.

Ther. SATURDAY, DEC. 7, 1901 Wea.

I begin putting up a lot of plants for the Field Columbian Museum, Dr. C. F. Millspaugh, from my miscellaneous duplicates.

Ther. FRIDAY 6 Wea.

I finish the tassels begun yesterday - a package of 60 specims.

Ther. SUNDAY 8 Wea.

I rest and also advance a little my tassels.

Ther.

MONDAY, DEC. 9, 1901

Wea.

Still working at my task.

Ther.

WEDNESDAY, DEC. 11, 1901

Wea.

I start on a visit to Harvard University, taking train at 9.00 a.m. and alighting in Cambridge at 5.45 p.m. where I seek the house of Dr. R. L. Robinson and spend a long evening discussing my affairs.

Ther.

TUESDAY 10

Wea.

I keep at my task, and by this time have made up nearly 400 specimens.

Ther.

THURSDAY 12

Wea.

I spend most of the day with Dr. Robinson, Mr. Fernald, Dr. Grinneman, Miss Bay and others in the Gray Herbarium. after 3.30 p.m. I go into Boston to call on Mrs. Savenport and at 7.24 p.m. leave for home.

Ther.

FRIDAY, DEC. 13, 1901

Wea.

I leave the night-express train at Shulburn about 4.30 A.M. and walk home in the dark by 6.45 A.M.

Ther.

SUNDAY, DEC. 15, 1901

Wea.

I prepare for poisoning and mounting a bundle or more of foreign plants received from Otto Leonhardt of Slossum, Germany, by cleaning the specimens and trimming the tickets.

Ther.

SATURDAY 14

Wea.

I ticket some miscellaneous plants, and write letters.

Ther.

MONDAY 16

Wea.

I prepare a bundle or two of Leonhardt-plants.

Prof. C. R. Jones visits my herbarium.

Ther. TUESDAY, DEC. 17, 1901 Wea.

I keep at Lionhardt
plants.

Ther. THURSDAY, DEC. 19, 1901 Wea.

I prepare four fascicles
of Lionhardt plants.

Ther. WEDNESDAY 18 Wea.

I turn off four fascicles

Ther. FRIDAY 20 Wea.

I prepare four or five
fascicles.

Ther. SATURDAY, DEC. 21, 1901 Wea.

Still preparing Leonhardt plants.

I write to Fortino Varona.

Ther. MONDAY, DEC. 23, 1901 Wea.

I finish preparing the Leonhardt plants for being mounted. But I am troubled to find that many species are represented by two or more specimens which are identical in every way, so there remains much assorting and selecting of the specimens, before they can be appropriated for my herbarium.

Ther. SUNDAY 22 Wea.

Keep at the Leonhardt plants and rest, also.

Ther. TUESDAY 24 Wea.

I attend to names of my grasses received from Mr. Merrill.

Home and family go to Lincoln.

In the evening I make a good beginning at assorting the Leonhardt plants by families or genera so I may select a specimen for The Fries Herbarium, whenever (as I so often do) I find the specimens duplicated precisely. That is two or more specimens of a species made by the same collector on the same date and in the same place.

Ther. WEDNESDAY, DEC. 25, 1901 Wea.

From 11.00 A.M. till
4.00 P.M. I go out to Christmas
dinner at Fowell Reads -
But the morning and the
evening I devote to the
taxa begun last evening.

Ther. THURSDAY 26 Wea.

I keep closely to my task.

Carl Thompson visits me.
Mr. B. Kell, Ferrisburgh.
Bert Eastey and his fiancé
And Frank and family
return.

Ther. FRIDAY, DEC. 27, 1901 Wea.

I finish preparing the
Leonhardt-plants for mounting

Ther. SATURDAY 28 Wea.

I begin going over the
Leonhardt-plants again
to take out all but one of
the specimens which are
exact duplicates as respects
collector, locality and date.

Ther. SUNDAY, DEC. 29, 1901 Wea.

When not resting I
keep at my task.

Ther. TUESDAY, DEC. 31, 1901 Wea.

I help Frank draw a
load of hay.
And begin cleaning a lot
of plants from Wyoming.

Ther. MONDAY 30 Wea.

I finish my task on
the Leontopodium plants—
having found 166 specimens
which are of no use to me—

MEMORANDA

Last number of Pl. Mex.:
8463 - 8622

" " Miscellaneous;
9280 - 9611 - 9675 - 9676 -

1899-

El Instituto Médico Nacional
Dr.

By cash advanced \$ 15.00

Dr.

To 236 mounted	\$ 100.18
" 100 genus covers & cards	7.75
" mounting Schaffner's plants	15.00
	<u>122.93</u>

MEMORANDA

Museo de Vacubaya
per Mr. Ferrari - Berg Dr.
To Pl. Mex., 1900 - 307 species
at 20 cents each (Mex) \$ 61.40

Fortino Darona,
Height 5 ft. 6 in.
Whisk 31 in.
Leg. 29 in.

Field Columbian
Museum
wants Pringle's list of
1888.

U.S. National Museum,
Bought Pl. Mex. 1901.
1 set, 189 species
Misc. 72 "

North Branch - El Paso {5274 } 12
5704 } 2

El Museo Nacional wants
ticket for Whannus Pringle
Rose n. sp.

also

My lists of 1890-1896

Dr. Don Leopoldo Rios de la Laguna Miranda
Museo de Tacubaya,
Mexico.

wants my lists of 1885, 1887, 1889.

El Instituto wants,
400 genus covers.
2000 sheets mounting paper.
also:-

My lists of 1886,
1888 & 1890 -

Carters
Dr. Don Joaquin Bernal,
Winchester rifle and
100 cartridges.

MEMORANDA

Guilleminia densa, (Willd.)
Moq., var. *aggregata*, Blume &
Remy.

Crotalaria Schindleriana,
W. de Tuxolo, May, 1891.
(Agnes) Dr. Rose

Crotalaria buxifolia,
Jalapa, Nac^{to} deligman

Crotalaria leptoclona, Schum.
near Mex. City, Asch. Jalapa,
Rose.

MEMORANDA

Salvia cyanea, Benth.
leaves ovate-acuminate, reser-
ving S. Mexicana. fls. smaller.

MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA

CASH ACCOUNT. JANUARY.

CASH ACCOUNT. JANUARY.

CASH ACCOUNT. MARCH.

[illegible]

CASH ACCOUNT. MARCH.

CASH ACCOUNT. APRIL.

Date.	Received.	Paid.
1	Ch. - Brandon	1 15-
	B - Vergennes	20
2	V. - Burlington	60
	B - Charlotte	35-
	Suit	10 00
	Suit, J. Varona,	5- 00
	Hat, P. & V.	1 00
	Pants	2 00
	Wants	20
	Shirts	3 99
5	Overalls, J. Varona,	65-
	Kaster	10
	Telephone to Bert	25-
8	Bert, help,	3 00
11	Chess	4 16
	Rasins & hdkf.	10-
12	Bot. paper	9 64
	Ch. - Burlington & R.	60
	Vest 1.50 + Troub. 35 =	1 85
	Knife	76-
	Postage	54
11	Exp. on Atlas	60
11	Telegram to J. H. McC. 07 + 10 =	61
12	J. E. Wales, Esq.,	2 00
	Spectacles	40
13	Making & mending shirts	1 25-
	Chess	3 45-
14	Overalls 70 + Boots 70 =	1 40
16	Medicine	60
	Freight to S. Africa	4 07

CASH ACCOUNT. APRIL.

Date.	Received.	Paid.
16	Ch. - Enclay City	14 64
	Baggage - "	2 25-
	Freight on bot. paper	60
17	Books	1 50
	Train to Mr. McGlashan	1 50
	Baggage transfer, I. City	50
	Enclay City - N. Branch	47
20	I. City - Washington (2)	31 08
	Fruit, etc.,	35-
21	Hotel (Burdine) Washington,	1 00
	Fares	40
22	Meals 1.00, baggage .25 =	1 25-
23	Meals 85 + fares 20 =	1 05-
24	Meals 50 + fares 15 =	95-
25	Meals 50 + fares 15 =	95-
26	Meals 55 + fares 15 =	20
27	Meals 1.00 + fares 15 =	1 15-
28	Meals 1.10 + fares 40 =	1 50
29	Meals 75 + fares 1.20 =	1 95-
30	Admission to M.C. Vernon	50
	Meals 55 + fares 15 =	1 00
	Room	3 00
	2 Wash. - El Paso	88 00
	Birth	6 00
	Food 1.70	1 70

CASH ACCOUNT. MAY.

Date.		Received.	Paid.
2	Food (New Orleans)		60
	Porter (tips)		50
4	Porter 25 + room 1.00 =	1 25	
	Bright	12 46	
	Meals & food		90
	Carter 1.50 + toll 25 =	1 75	
	Room		1 00
	Buty on chuge		1 66
5	Meals and food		1 25
	Tin paid 15 + fare 10 =		25

5	Food		32
7	Caryadores		1 00
	Room till 7 June		12 00
	Food		1 07
8	Food 1.45 + 52 =		1 97
9	Fares		20
9	Fares		48
	Food		50
	Caryador		50
10	Food 35 + 18 =		1 03
	Hotel 75 + caryador 50 =		1 25
11	Food 56 + fares 30 =		80
	Room		50
12	Food		2 06
	Church offering		1 00
13	Food .66 + fares 32 =		98
	Room		50
14	Food 1.02 + fares 32 + room 21		84

CASH ACCOUNT. MAY.

Date.		Received.	Paid.
15	Food 52 + fares 52 + room =		1 54
16	Food		1 90
	Caryadores		50
17	Food		68
	Caryadores		50
	Fortin barona		3 50
18	Food 37 + 57 =		94
	Fare 96 + 26 =		1 22
	Fortin		50
19	Food		46
	Cathedral		25
20	Food 1.57 + 5.5 =		2 12
	Postage stamps		2 00
21	Food		64
	Fare		1 25
22	Food		1 37
	Fortin		50
	Caryadores		75
23	Food		1 07
	Caryadores 75 + room 2 days =		2 25
24	Food 1.50 + 33 =		1 33
25	Food 52 + room 75 =		1 67
26	Food 37 + 43 =		1 10
	Caryadores, Demora		75
27	Food 1.54 + Caryadores 50 =		2 04
	Portin 2.00 pay + 1.25 (room)		3 25
28	Food		52
29	Food 79 + fare 2.11 =		2 90
30	Food 1.25 + fares 2.22 =		3 40
	Hotel, Casilla		1 50
31	Food papers & fare		2 77
			86. 5 39.25

CASH ACCOUNT. JUNE.

CASH ACCOUNT. JUNE.

Date.		Received.	Paid.
1	Food		1 46
	Fares 18 + paper 10 =		28
	Hotel, Cuautla,		75
2	Food 207 + 40 =		2 47
3	Food		2 34
	Room, Vera Cruz,		1 00
	Porters " "		75
4	Food		1 00
5	Food 59 + Fortin 50		1 09
6	Food 1.01 + fares 50 =		1 51
7	Food 1.72 + fares 18 =		1 90
8	Food 1.57 + fare 6 =		1 57
	John H. McElshan		1 06
	" " U.S.		50 00
9	Food, etc.,		51
	Telegram to Dr. Rose		3 62
10	Food 1.40 + cathedral 50 =		1 65
	Fares 1.10 + 9.3.1.10 =		2 70
11	Food 1.03 + 1.00 + 20 =		2 20
	Fortin 1.00 + fare 12 =		1 12
	Room, Jojutla,		1 75
	Porter		50
13	Food 43 + fares 12 =		55
14	Food 1.15 + 25 =		1 40
	Fortin		1 00
15	Food 1.33 + fares 1.35 =		2 68
16	Food 1.97 + 23 =		2 20
	Fortin		1 00
	Room, Jojutla,		75
17	Room, Oaxtepec,		50
18	Food 42 + fares 12 =		54

Date.		Received.	Paid.
19	Food 1.12 + 25 =		1 37
	Room rent till 7, July		12 00
	Fortin		1 75
20	Food		83
	Mex - Jalapa (3 rd) 342		8 70
	Baggage transfer		1 50
	" excise		1 25
21	Food 21 + 25 =		46
	Cuyahues		52
	Room, Jalapa 1.00 + 50 + 50 + 20 =		2 25
22	Food 34 + 1.00 =		1 34
23	Food 61 + 1.00		1 61
	Fortin		2 25
	Baggage excise 2.10 + porters 75 =		2 55
24	See		24
25	Food 32 + 56 =		38
	Cuyahues		25
26	Food 1.64 + fares 16 =		8 0
	Baggage transfer		50
27	Food		1 62
	Fares		17
28	Food 95 + 50 =		95
	Fortin		1 00
29	Food 26 + 25 =		51
	Cathedral		50
	Bad money		1 00
30	Food 1.29 + 75		1 00
	Fortin		1 00
	U.S.		94 07

CASH - ACCOUNT. JULY.

Date.		Received.		Paid.
1	Food			40
2	Food 1.00 + 25 =			1 25
	Fortin			1 00
	Dr. Rose	1 00		
3	Food			10
4	Food			2 50
6	Food			25
	Dr. Rose (food)	1 50		
	Dr. Rose (fare)	12 69		
7	Food			21
	Fortin		4 00	
8	Food			40
9	Food			2 00
10	Food			1 40
11	Food			1 15
12	Food 60 + 50 =			1 10
	Dr. Rose, food	3 22		
	" fare & room	2 58		
13	Food			1 00
14	Food 1.09 + 25 =			
	Fortin		7 50	
15	Food			65
	Dr. Rose 1.50 + 1.40 =	2 45		
16	Food 1.40 + 32 =			1 72
	Fortin		1 00	
	Dr. Rose (fare)	72		
17	Food 17 + 25 =			42
	Dr. Rose (fare)	32		
18	Food 1.50 + 52 =			2 02
	2 Mrs. - Aj. no. (300)			1 44

CASH ACCOUNT. JULY.

Date.		Received.	Paid.
18	Dr. Rose	2 47	
19	Food		25
20	Food		1 75
21	Food		20
	Room 10, Pacheco,		1 00
	Dr. Rose	4 00	
22	Food $1.39 + 25 =$		1 64
23	Food		2 55
	Dr. Rose, faris,	36	
24	Food $44 + 25 =$		69
25	Food $18 + 25 =$		43
	Rooms		2 00
27	Food,		45
	Dr. Rose	6 25	
	Cayador		35
28	Food		1 75
	Fortin		50
29	Food		40
	M-San Cristobal & R.		75
30	Food		1 81
	Faris		44
31	Food $1.12 + 20 =$		1 31
	Mer.	43 88	
	W.D.	19 74	
	Help from Dr. Rose	16 85	

CASH ACCOUNT. AUGUST.

CASH ACCOUNT. AUGUST.

Date.	Received.	Paid.
1 Food		21
2 Food		30
Gr. Rose	2 62	
3 Food		75
Porter		30
4 Food 65+25=		90
J. Varona	2 50	
Room rent to Aug. 7th	1 2 00	
5 Food 2.34+30	2 64	
Porters 35+25+25=	85	
Baggage excise	20	
6 Food		23
7 Food		23
Hotel, Tehuacan,	1 00	
Porters	1 00	
8 Express to Mexico	80	
Food & paper of fare	26	
9 Food, etc.	83	
10 Food 2.18+5.15=	2 33	
11 Food 90+40=	1 30	
Fortin	1 00	
12 Food 10+25+10+12=	57	
2 Mex. - San Andres	6 78	
Cargadores 37+6+35=	78	
S. A. - Chalchicomula	42	
13 Food	75	
14 Food	44	
15 Food 15+6=	24	
Hotel	1 50	
Cargadores 38+15+50=	2 00	

Date.	Received.	Paid.
15 Chalch. - San Andres		77
S. A. - Mexico	6 78	
Baggage excise	1 00	
16 Food 95-		95-
Fortin	1 00	
17 Food 57		57
Room rent till 2/66	6 00	
18 Food 1.02-		1 02
19 Food.	1 77	
Fares	52	
20 Food 465-		1 57
21 Food 1.00+12=		1 12
Fares 22+35+porter 25=		72
Hotel, Tehuacan,	1 50	
22 J. - Tepanco 47 & R 47=		94
23 J. - Carmona & R.		38
24 Food		25-
Baggage excise		25-
Porters, 75+fares 12=		87
25 Food		2 53
26 Food, etc.		80
27 Food 52+fares 18=		70
27 Food 55-		55-
28 Food		1 05-
29 Food 1.40+16=		1 56-
Fortin Varona		5 00
30 Food		1 46
Fares, etc., Tranquilino		1 73-
31 Food		1 42
Cathedral		25-
	U. 6.	38 70

CASH ACCOUNT. SEPTEMBER.

Date.	Received.	Paid.
1 Food		1.15
Room rent till 7th		6.00
2 Food		67
Fares		1.70
3 Food		1.15
Postage		55
4 Food		73
Fares		84
5 Food		1.44
Fares		42
6 Food		1.30
7 Food		37
Fares		1.34
8 Food		2.13
9 Food		1.19
Quinela - Amozoc & H.		79
Charity		16
10 Food 11 + 5 =		16
Fares 78 + 12 =		90
11 Food 1.15 + 2.13 =		3.28
Room till 22nd		6.00
12 Food 62 + fare 36 =		98
13 Hotel 2.00 + fare 13 =		2.13
14 Food 6 + fare 30, etc. =		3.2
15 Food		2.02
16 Food		4.0
Fortin		6.00
17 Food		67
18 Food		65
19 Food		1.15

CASH ACCOUNT. SEPTEMBER.

Date.	Received.	Paid.
20 Food 1.36 + 4 =		1.40
Box 1.76 + porters 50 = 2.25		2.25
21 Food		1.65
22 Food		62
23 Food		1.50
24 Food		82
Fares		42
25 Food		3.2
Fares		42
26 Food		1.10
Room 5-days		2.50
Fares		27
Cargadores		1.00
27 Fruit 66		66
Books for Fortin		3.66
28 Food [246 = 1.00 U.S.]		25
29 Food		50
Room		2.00
29 Food 50 + 90 + 30 + 90 + 15 =		265
Basket 35 + blanket 30 = 65		65
Shoes, Fortin, & Book		2.50
30 Food 55 + 1.05 =		1.60
Carter		1.25
Freight to Charlotte		9.80
Books		2.00
giro postal, Fortin		4.55
Wagon excise		5.45
Ticket, El Paso - Ch.		5.20
	U.S.	88.80

CASH ACCOUNT. OCTOBER.

Date.	Received.	Paid.
2	Fruit	25
3	Telegram to Frank	50
	Food	50
	Fares, 20 + Museum 25 =	45
10	Postage	72
17	Chuse	50
24	Chuse, etc.	1 00
25	Interest for Mrs. Small	15 00
30	Freight from El Paso	11.83
	Mail box	2 50
	Stockings	25
	Taxes	34 50
	Mail box post	50
31	Postage	74
	John W. McFlashan	60 00
	Fortino	9 25

Expense of 17th
Mexican journey \$505.39
Expense of John H. Mcl. 204.49.

CASH ACCOUNT, OCTOBER.

CASH ACCOUNT. NOVEMBER.

Date.		Received.	Paid.
1	N. W. Patterson P.O.M.O.	53	15-
			20
8	Ch - Middlebury & R. Budding Knife Hunts	1	10 50 80
11	Ch - Burlington		35-
16	Ch - Middlebury & R.	1	10
18	Horse feed Burlington Hunts Glue		25- 1 00 25-
19	Chuse		45-
22	Ch - Burlington & R. Hair cutting Sourcraut Paper, pencils, etc., Glue Hacks Flight from Germany		45- 15- 19 00 1 7 1 90 10 10 29
27	Chuse		50

CASH ACCOUNT. NOVEMBER.

Date.		Received.	Paid.
7	Postage to Grand Rapids		40
11	Ch. - Belmore Falls & R. B. Falls - Cambridge		5 40 2 56
12	Worston - B. Falls		2 90
14	Postage		74

SUMMARY OF CASH ACCOUNT.

		Received.		Paid.		Date.
JAN.						
FEB.						
MAR.						
APRIL.						
MAY.						
JUNE.						
JULY.						
AUG.						
SEPT.						
OCT.						
NOV.						
DEC.						

BILLS PAYABLE JANUARY.

BILLS PAYABLE FEBRUARY, .

[illegible]

BILLS PAYABLE MARCH.

Date.	NAME.	Dolls.	Cts.
	RECEIVABLE.		

BILLS PAYABLE, APRIL.

Date.	NAME.	Dolls.	Cts.	100.
	RECEIVABLE.			

BILLS PAYABLE MAY.

BILLS PAYABLE. JUNE.

[illegible]

BILLS PAYABLE, JULY.

[illegible]

BILLS PAYABLE, OCTOBER.

[illegible]

BILLS PAYABLE. NOVEMBER.

[illegible]

BILLS PAYABLE DECEMBER

[illegible]

MEMORANDA.

[illegible]

MEMORANDA.

ADDRESSES.

NAME.	Dr. B. L. Robinson
STREET, No.	42 Shepard St.
CITY.	Cambridge, Mass.
NAME.	J. M. Greenman
STREET, No.	Königl. Botanisches Museum
CITY.	Grinwaldstr. 6-7, Berlin W. 30.
NAME.	Rudolph Blaschka,
STREET, No.	Hosivirtz near Dresden,
CITY.	Germany.
NAME.	
STREET, No.	
CITY.	
NAME.	
STREET, No.	
CITY.	
NAME.	
STREET, No.	
CITY.	
NAME.	E. L. Morris.
STREET, No.	Western High School,
CITY.	Washington, D. C.
NAME.	Chas. S. Davis, June, Miss.
STREET, No.	39 State St.
CITY.	Rochester, N. Y.
NAME.	
STREET, No.	
CITY.	

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